Wednesday, 9:00-11:00

**WA-01**
Wednesday, 9:00-11:00, Room B-10, Video-Transmission G-201

Bertsimas: Performance analysis in stochastic systems
Stream: Plenary lectures
Chair: Hans-Jakob Lüthi, D-MATH, ETHZ

1 - A computationally tractable theory of performance analysis in stochastic systems
Dimitris Bertsimas, Sloan School of Management, MIT, Massachusetts Institute of Technology

---

Wednesday, 11:30-13:00

**WB-08**
Wednesday, 11:30-13:00, Room G-201

KKT systems and related topics
Stream: Continuous optimization and control
Chair: Andreas Fischer, Department of Mathematics, Technische Universität Dresden

1 - Generalized Nash equilibrium problem in the quasiconvex case: New optimality conditions and application to electricity markets
Didier Aussel, Lab.PROMES UPR 8521, University of Perpignan

2 - A New Successive Linear Programming Framework for Constrained Smooth and Nonsmooth Equations
Andreas Fischer, Department of Mathematics, Technische Universität Dresden, Francisco Facchinei, Markus Herrich

3 - Application of a Successive Linear Programming Framework to Karush-Kuhn-Tucker Systems
Markus Herrich, Technische Universität Dresden, Francisco Facchinei, Andreas Fischer

4 - On properties of homogeneous complementarity functions
Pradyumn Kumar Shukla, Karlsruhe Institute of Technology, Andreas Fischer

---

**WB-09**
Wednesday, 11:30-13:00, Room G-204

Optimal control I
Stream: Continuous optimization and control
Chair: Alessandra Buratto, Department of Pure and Applied Mathematics, University of Padova

1 - Social Interactions and Tipping Points
Gustav Feichtinger, Institute for Mathematical Methods in Economics, Vienna University of Technology, Jonathan Caulkins, Dieter Grass, Richard Hartl, Peter M. Kort, Andreas Novak, Andrea Seidl

---

**WB-10**
Wednesday, 11:30-13:00, Room G-217

Applications in telecommunication
Stream: Discrete optimization, graphs and networks
Chair: Peter Hoffmann, Fakultät für Mathematik, Technische Universität Chemnitz

1 - A Dynamic Programming Approach to Hardware Placement in Optical Access Networks
Olat Maurer, Institut für Mathematik, Technische Universität Berlin

2 - Models for FTTX network planning
Axel Werner, Optimization, Zuse Institut Berlin (ZIB), Sebastian Orlowski, Roland Wessäll

3 - A Lagrangian solution approach for the two-level FTTX network design problem
Andreas Bley, TU Berlin, Ivana Ljubic, Olaf Maurer

4 - Experiments on robust network capacity design in telecommunication based on a second order cone model for chance constraints
Peter Hoffmann, Fakultät für Mathematik, Technische Universität Chemnitz, Christoph Helmberg

---

**WB-11**
Wednesday, 11:30-13:00, Room G-221

The travelling salesman problem
Stream: Discrete optimization, graphs and networks
Chair: Ola Svensson, Department of Theoretical Computer Science, KTH Royal Institute of Technology

1 - Complexity indices for the travelling salesman problem and data mining
Dragos Cvetkovic, Mathematical institute SANU

2 - An exact adaptive branch and bound algorithm for the ATSPTW
Frank Schneider, INFORM -GmbH, Ulrich Dorndorf

3 - Approximating Graphic TSP by Matchings
Ola Svensson, Department of Theoretical Computer Science, KTH Royal Institute of Technology, Tobias Mömke
**WB-12**

**Group decision making I**

Stream: Decision analysis, decision support
Chair: Snjöllur Olafsson, Faculty of Economics and Business Administration, University of Iceland

1. Analytical support of visions-based decisions: the cases of 2000 Watt and 1 ton CO2 visions in the Swiss electricity sector  
   Evelina Trutnevyte, Institute for Environmental Decisions (IED), Natural and Social Science Interface (NSSI), ETH Zurich, Michael Stauffacher, Roland W. Scholz

2. Dealing with conflicting targets by using group decision making within PROMETHEE  
   Ute Weissfloch, Fraunhofer ISI, Jutta Geldermann

3. A universal framework for the assessment of group MCDA methods and systems — with its applications to convergence and cognitive complexity  
   Andrej Bregar, Informatika

**WB-14**

**Energy and emission markets**

Stream: Energy, environment and climate
Chair: Thomas Rutherford, ETH Zürich

1. Cap and Trade, Emission Tax and Hybrid Schemes  
   Max Fehr, Statistics department, LSE

2. Modeling impacts of the European Emission Trade System on the future energy sector  
   Carola Hammer, Lehrstuhl für BWL - Controlling, Technische Universität München

3. Evaluating the carbon leakage effect on the Italian cement sector  
   Rossana Riccardi, Quantitative Methods, University of Brescia, Elisabetta Allevi, Giorgia Oggioni, Marco Rocco

4. Price-Induced Load-Balancing at Consumer Households for Smart Devices  
   Cornelius Köpp, Institut für Wirtschaftsinformatik, Leibniz Universität Hannover, Hans-Jürg von Mettenheim, Michael H. Breitner

**WB-15**

**Stochastic optimization I**

Stream: Stochastic programming, stochastic modeling and simulation
Chair: Alex Weissensteiner, Free University of Bolzano

1. Stochastic Programming DEA Model of Fundamental Analysis of Public Firms for Portfolio Selection  
   Chanaka Edirisinghe, College of Business Administration, University of Tennessee

2. Modern multistage risk measures for immunizing fixed-income portfolios under uncertainty  
   Larraitz Aranburu, Economía Aplicada III, UPV/EHU, María Araceli Garín, Laureano Fernando Escudero, Gloria Perez

3. Heavy Tails via Stochastic Optimization Problems  
   Vlasta Kašková, Econometrics, Institute of Information Theory and Automation of ASCR, Michal Houda

4. Robustness in SSD portfolio efficiency testing  
   Milos Kopa, Department of Probability and Mathematical Statistics, Charles University in Prague, Faculty of Mathematics and Physics

5. APT-Based Scenario Trees  
   Alex Weissensteiner, Free University of Bolzano, Michael Hanke, Alois Geyer

**WB-17**

**Banking, corporate finance and financial forecasting I**

Stream: Financial modeling, risk management, banking
Chair: Michael Doumpos, Dept. of Production Engineering and Management, Technical University of Crete

1. Optimization of variable banking products  
   Michael Schürle, Institute for Operations Research and Computational Finance, University of St. Gallen

2. Forecasting Performance of Financial Time Series Based on Range to Standard Deviation Ratio  
   Subrata Mitra, Faculty, Institute of Management Technology, Nagpur

3. Convertible Debt Financing and Managerial Compensation  
   Kyoko Yagi, Faculty of Systems Science and Technology, Akita Prefectural University, Ryuta Takashima

4. Performance evaluation of european banks using multicriteria analysis techniques  
   Michael Doumpos, Dept. of Production Engineering and Management, Technical University of Crete, Kyriaki Kosmidou

**WB-18**

**Lending and default risk**

Stream: Financial modeling, risk management, banking
Chair: Wolfgang Aussenegg, Finance and Corporate Control, Vienna University of Technology

1. A uniqueness result for solutions of BSDE with quadratic driver and unbounded terminal value  
   Freddy Delbaen, ETH Zurich

2. Identifying Risky Borrowers in Peer-to-Peer Lending  
   Alan Reiner, AMDD, JHU Applied Physics Lab, Vural Aksakalli
### WB-19
**Wednesday, 11:30-13:00, Room E-18**

#### Experimental economics I
**Stream:** Game theory, computational and experimental economics

**Chair:** Stefan Pickl, Department for Computer Science, Universität der Bundeswehr München

1. **Social Values and Cooperation. Results from an Iterated Prisoner's Dilemma Experiment.**
   - Ulrike Leopold-Wildburger, Statistics and Operations Research, Karl-Franzens-University, Jürgen Fleiß

2. **An experimental study examining insider trading with respect to different market structures**
   - Philipp Hornung, Gernot Hinterleitner, Ulrike Leopold-Wildburger, Roland Mestel, Stefan Palan

3. **A Markov Model of Behavior in an Iterated Prisoner's Dilemma Game**
   - Thomas Burkhardt, Campus Koblenz, IfM, Universitaet Koblenz-Landau, Armin Leopold, Ulrike Leopold-Wildburger

4. **Optimal Strategies within Antagonistic Positional Games in Markov Decision Processes**
   - Stefan Pickl, Department for Computer Science, Universität der Bundeswehr München, Dmitrii Lozovanu

### WB-20
**Wednesday, 11:30-13:00, Room F-172**

#### OR applied to health care I
**Stream:** Health, life sciences, bioinformatics

**Chair:** Marion Rauner, Dept. Innovation and Technology Management, University of Vienna

1. **A disaster planning management game for ambulance services: experimental analysis of players' strategies and success**
   - Marion Rauner, Dept. Innovation and Technology Management, University of Vienna, Helmut Niessner, Ulrike Leopold-Wildburger, Natasa Peric, Teresa Herdlicka

2. **Technology as cost driver in health care**
   - Margit Sommersguter-Reichmann, Department of Finance, University of Graz, Adolf Stepan, Mex Glawischning

3. **Healthcare operations management: A taxonomic review**
   - Serhat Tüzün, Industrial Engineering, Istanbul Technical University, Y. Ilker Topcu

### WB-21
**Wednesday, 11:30-13:00, Room F-109**

#### Regulation and market models
**Stream:** Network industries and regulation

**Chair:** Mikulas Luptacik, Economics, University of Economics and Business

1. **Assessing the effects of different regulatory regimes on european electricity distribution efficiency**
   - Christoph Bremberger, Research Institute for Regulatory Economics, WU Vienna, Franciska Bauer, Stephan Schmitt

2. **Analysis of Investment Incentives and the Influence of Growth Options in Regulated Industries**
   - Sabine Pallas, TU München

3. **Regulatory Impact of Environmental Standards on the Eco-Efficiency of Firms**
   - Francisca Bauer, WU, Christoph Bremberger, Stephan Schmitt, Mikulas Luptacik

4. **Utilizing of microeconomic models in evaluating of competitive environment in Slovakia**
   - Eleonora Fendekova, Department of Business Economics, University of Economics Bratislava, Michal Fendek

5. **Regulatory impact assessment in the automotive industry — case study California**
   - Grit Walther, Schumpeter School of Business and Economics, Chair of Production and Logistics, Bergische Universität Wuppertal, Jörg Wansart, Karsten Kieckhäfer, Thomas Spengler

### WB-22
**Wednesday, 11:30-13:00, Room G-209**

#### Applications in manufacturing
**Stream:** OR in industry, software applications, modeling languages

**Chair:** Stefan Nickel, Institut fuer Operations Research, Universität Karlsruhe

1. **Scheduling steel plates on a roller furnace**
   - Eric Ebermann, Institute of Operations Research (IOR), Karlsruhe Institute of Technology (KIT), Stefan Nickel

2. **Solving Steel Mill Slab Problems with Branch and Price**
   - Rüdiger Stephan, Technische Universität Berlin, Stefan Heinz, Thomas Schlechte

3. **The Stochastic Dynamic Distance Optimal Partitioning Problem**
   - R. Hildenbrandt, Inst. Mathematik, TU Ilmenau

4. **Maximization of Scheduled Sequence Achievement Ratio in Automobile Manufacturing**
   - Elif Elicin Gunay, Industrial Engineering, Sakarya University, Ufuk Kula
WB-23

Wednesday, 11:30-13:00, Room F-121

Rich vehicle routing I
Stream: Location, logistics, transportation and traffic
Chair: Ulrich Derigs, Information Systems and Operations Research, University of Cologne

1 - Emissions Minimization Vehicle Routing Problem: an Approach Subjected to the Weight of Vehicles
Heiko Kopfer, Engineering, Institut für Konstruktion - MVP

2 - A new simulated annealing algorithm for the freight consolidation problem
Erk Struwe, Department of Business Studies & Economics, Chair of Logistics, University of Bremen, Christopher Sander, Xin Wang, Herbert Kopfer

3 - ACO for the VRPTW with Multiple Deliverymen
Gerald Senarcens de Grancy, Institute of Production and Operations Management, University of Graz, Marc Reimann

4 - Solving a real-world vehicle routing problem with multiple use of tractors and trailers and EU-regulations for drivers arising in air cargo road feeder services
Ulrich Vogel, Department of Information Systems and Operations Research, University of Cologne, Ulrich Derigs

WB-24

Wednesday, 11:30-13:00, Room F-101

Location problems I
Stream: Location, logistics, transportation and traffic
Chair: Erwin Pesch, FB 5, University of Siegen

1 - A Sequential Zone Adjustment Method and Approximate Approach to Large p-Median Problems
Jaro Jasicek, Transportation Networks, University of Zilina, Marek Kvet

2 - New alternating heuristic for the (r,p)-centroid problem on plane
Ivan Davydov, Theoretical Cybernetics, Sobolev Institute of Mathematics Siberian Branch of Russian Academy of Science, Emilio Carrizosa, Yury Kochetov

3 - Sequential Approach to Large Instances of Generalized p-center Problem
Michal Kohani, Transportation Networks, University of Zilina, Jaro Jasicek, Lubos Buzna

4 - (r,p)-centroid problems on networks with vertex and edge demand
Dominik Kress, Institute of Information Systems, University of Siegen, Erwin Pesch

WB-25

Wednesday, 11:30-13:00, Room F-104

Vehicle, fleet and crew scheduling
Stream: Location, logistics, transportation and traffic
Chair: Snezana Mitrovic-Minic, Simon Fraser University

1 - Vehicle refueling policies for long-haul freight transportation considering time windows and fuel costs
Alexandra Hartmann, Business School, University of Applied Sciences, Saarland, Teresa Melo, Thomas Bousonville, Herbert Kopfer

2 - Sequential and partial integrated vehicle and crew scheduling with various timetables - increasing the similarity of resource schedules in public transport
Boris Amberg, Decision Support & Operations Research Lab, University of Paderborn, Bastian Amberg, Natalia Kliewer

3 - Simultaneous Vehicle and Crew Routing and Scheduling for Partial and Full Load Tramp Transports
Michael Drexler, Julia Reck, Thomas Sigl, Bettina Berning

4 - Routing and scheduling of a heterogeneous fleet of re-configurable ferries: A model, a heuristic, and a case study
Snezana Mitrovic-Minic, Simon Fraser University, Abraham Punnen

WB-26

Wednesday, 11:30-13:00, Room F-153

Service scheduling
Stream: Scheduling, time tabling and project management
Chair: Norbert Trautmann, Department of Business Administration, University of Bern

1 - Callstream-based scheduling
Martin Bauch, Mathematics and Computer Science, Ernst Moritz Arndt University Greifswald, Stefan Funke

2 - Course assignment problem with expressed preferences in a timetable
Sacha Varone, Economie d’Entreprise, Haute Ecole de Gestion de Genève, David Schindl

3 - A scheduling application in the event-tourism industry: MILP model and experimental performance analysis
Gianluca Brandinu, Department of Business Administration, University of Bern, Norbert Trautmann

4 - Bus allocation and its utilization between two terminals
Dnyanesh Patil, Computer Science, PES Institute of Technology, Jessica Patel, Meghna Suvarna, Guruprasad Nagaraj

WB-27

Wednesday, 11:30-13:00, Room F-152

Scheduling with speeds
Stream: Scheduling, time tabling and project management
Chair: Marc Uetz, Applied Mathematics, University of Twente
1 - Scheduling of a Speed Dating event
   Tanguy Lapegue, Automatique Productique, Ecole des Mines de Nantes, Odile Bellenguez-Morineau, Christelle Gueret

2 - Smoothed jumping through the neighborhood
   Tjark Vredeveld, Dept of Quantitative Economics, Maastricht University

3 - Decentralized Scheduling on Related Machines
   Ruben Hoeksma, Applied Mathematics, University of Twente, Marc Uetz

4 - The Integrated Production Scheduling and Maintenance Problem with Stochastic Failures on a Single Machine
   Wiebke Christiansen, Supply Chain Management, Christian-Albrechts-Universität zu Kiel, Gudrun Kiesmüller

■ WB-28
   Wednesday, 11:30-13:00, Room F-180

Lotsizing
   Stream: Production management, supply chain management
   Chair: Florian Sahling, Institute of Production Management, Leibniz University Hannover

1 - Combining the principles of Variable Neighborhood Decomposition Search and Fix & Optimize heuristic to solve multi-level lot-sizing and scheduling problems
   Florian Seeanner, Rechts- und Wirtschaftswissenschaften, Fachgebiet Produktion & Supply Chain Management

2 - Tight lower bounds by semidefinite relaxation for the discrete lot sizing and scheduling problem with sequence-dependent changeover costs
   Celine Gicquel, Laboratoire de Recherche en Informatique, University of Paris Sud, Abdel Lisser

3 - A Tabu Search Approach for the Sequence-dependent Proportional Lot-sizing and Scheduling Problem with Backorders and Raw Material Availability Checks
   Rudolf Bauer, WINFOR (Business Computing and Operations Research) Schumpeter School of Business and Economics, University of Wuppertal, Stefan Bock, Torben Kuschel, Paul Göpfert

4 - Multi-product capacitated lotsizing in Closed-Loop Supply Chains
   Florian Sahling, Institute of Production Management, Leibniz University Hannover

■ WB-29
   Wednesday, 11:30-13:00, Room F-118

Automotive
   Stream: Production management, supply chain management
   Chair: Thomas Spengler, Institute of Automotive Management and Industrial Production, Technische Universität Braunschweig

1 - Implementation of failure mode and effects analysis (FMEA) in an automotive supplier
   Özlem Şenvar, Industrial Engineering Department, Marmara University Faculty of Engineering, Özalp Vayvay

2 - Integrated Production and Outbound Distribution Planning in the Automotive Industry
   Felix Zesch, 4flow AG, Bernd Hellingrath, Dominik Pfeiffer

3 - Integration of control chart design and production decisions in automotive manufacturing
   Ultuk Kula, Industrial Engineering, Sakarya University, Tülin Aktin

4 - Mid-term model-plant allocation for flexible production networks in the automotive industry
   Kai Wittke, Institute of Automotive Management and Industrial Production, Technische Universität Braunschweig, Achim Koberstein, Thomas Spengler

■ WB-30
   Wednesday, 11:30-13:00, Room G-212

Capacity control and pricing
   Stream: Accounting and revenue management
   Chair: Thomas Volling, Institute of Automotive Management and Industrial Production, Technische Universität Braunschweig

1 - Pricing and Revenue Management with Stochastic Demand
   Catalina Stefanescu-Cuntze, ESMT, Ayse Kocabiyikoglu, Ioana Popescu

2 - Improved Bid Prices for Multistage Network Revenue Management
   Alwin Haensel, Mathematics, VU University Amsterdam

3 - Optimal seat capacity control for flexible products with multiple resources
   David Sayah, Logistics Management, Johannes Gutenberg University Mainz, Stefan Irnich

4 - Analysis of cross-price effects on markdown policies
   Uluk Kula, Industrial Engineering, Sakarya University, Ozlem Cosgun

■ WB-31
   Wednesday, 11:30-13:00, Room G-220

Routing and scheduling
   Stream: Metaheuristics and biologically inspired approaches
   Chair: Walter Gutjahr, Department of Statistics and Decision Support Systems, University of Vienna

1 - A Fast Tabu Search Implementation for Asymmetric Traveling Salesman Problems
   Sumanta Basu, Operations Management, Indian Institute of Management Calcutta, Dipesh Ghosh

2 - Designing an efficient distributed evolutionary algorithm for the vehicle routing problem
   Robert Manger, Department of Mathematics, University of Zagreb, Krunoslav Puljic
3 - A Memetic Algorithm with a Novel Split Approach for Efficient Solution of Modified Capacitated Arc Routing Problems
Min Liu, School of Engineering and Information Technology, University of New South Wales, Tapabrata Ray

4 - Straightforward heuristics vs. evolutionary algorithms in dynamic scheduling
Jeroen de Jong, Research & Technology, Thales

Wednesday, 13:30-15:00

■ WC-08
Wednesday, 13:30-15:00, Room G-201
Convergence principles and stability
Stream: Continuous optimization and control
Chair: Bernd Kummer, Mathematik, Humboldt-Universität zu Berlin
Chair: Alexander Kruger, Graduate School of Information Technology & Mathematical Sciences, University of Ballarat

1 - Optimality conditions for bilevel programming problems
Stephan Dempe, Mathematics and Computer Sciences, Technische Universität Freiberg, Alain B. Zemkoho

2 - Error bounds: necessary and sufficient conditions
Alexander Kruger, Graduate School of Information Technology & Mathematical Sciences, University of Ballarat

3 - Stability of nonlinear programs with cone constraints
Anna-Laura Wickström, Universität Zürich

4 - Some characterizations of Hölder-calm inequality systems
Bernd Kummer, Mathematik, Humboldt-Universität zu Berlin, Jan Heerda

■ WC-09
Wednesday, 13:30-15:00, Room G-204
Optimal control II
Stream: Continuous optimization and control
Chair: Hiroaki Morimoto, Department of Mathematics, Ehime University

1 - Minimizing the Dependency Ratio in a Population with Below-Replacement Fertility through Immigration
Christa Simon, Vienna Institute of Demography, Austrian Academy of Sciences, Gustav Feichtinger, Anton Belyakov

2 - On optimal fertility and mortality in economies with age-structured population
Stefan Wrzaczek, University of Technology Vienna, Institute of Mathematical Methods in Economics, Michael Kuhn

■ WC-10
Wednesday, 13:30-15:00, Room G-217
Integer programming I
Stream: Discrete optimization, graphs and networks
Chair: Alberto Del Pia, Mathematics, IFOR, ETH Zurich

1 - Vertex structure of master corner polyhedra
Vladimir Shlyk, Number Theory, Institute of Mathematics of the National Academy of Sciences of Belarus

2 - Some geometric aspects of cutting-plane theory
Gennadiy Averkov, Faculty of Mathematics, University of Magdeburg

3 - Computational experiments with FiberSCIP - a multithreaded MIP Solver
Yuji Shinano, Optimization, Zuse Institute Berlin, Timo Berthold, Stefan Heinz, Thorsten Koch, Michael Winkler

4 - On the rank of disjunctive cuts
Alberto Del Pia, Mathematics, IFOR, ETH Zurich

■ WC-11
Wednesday, 13:30-15:00, Room G-221
Multicriteria optimization
Stream: Discrete optimization, graphs and networks
Chair: Kai-Simon Goetzmann, Institut für Mathematik, Technische Universität Berlin

1 - Algorithms of multicriteria discrete optimization and their applications
Illya Kokshenev, Graduate Program in Electrical Engineering, Pontifical Catholic University of Minas Gerais, Lucas Silva, Whester Juberat Araujo, Petr Ekel, Henrique Schaffner

2 - A branch and bound algorithm for a bicriteria sectorization problem
Tang Xin, Laboratoire Informatique, Université François-Rabelais de Tours, Ameur Soukhal, T’kindt Vincent

3 - Bi-criteria optimization model and algorithms of servicing scheduling for a distributed objects group
Nadezda Dunichkina, Electromechanical, Volga State Academy of Water Transport

4 - Compromise Solutions
Kai-Simon Goetzmann, Institut für Mathematik, Technische Universität Berlin, Jannik Matuschke, Christina Büsing
**WC-12**  
Wednesday, 13:30-15:00, Room E-21  

**Group decision making II**  
Stream: Decision analysis, decision support  
Chair: Keith Hipel, Systems Design Engineering, University of Waterloo  

1 - The Constitutional Council in Iceland  
Snjoður Olafsson, Faculty of Economics and Business Administration, University of Iceland  

2 - The evaluation of supplier performance with multi-criteria group decision making method based on partial information  
Halil Şen, Sakarya University, Murat Ayanoglu  

3 - Online Decision Support for the Management of Multi Criteria Dynamic Processes  
Hans L. Trinkaus, Systemanalyse, Prognose und Regelung, Fraunhofer ITWM

---

**WC-14**  
Wednesday, 13:30-15:00, Room F-174  

**Grid integration of renewable energy**  
Stream: Energy, environment and climate  
Chair: Thomas Rutherford, ETH Zürich  

1 - A stochastic version of market coupling with wind penetration  
Giorgia Oggioni, Department of Quantitative Methods, University of Brescia, Italy, Frederic Murphy, Yves Smeers  

2 - Integration of Fluctuating Renewable Energy in Europe  
Stephan Spiecker, University of Duisburg-Essen, Christoph Weber  

3 - Integration of renewable energy sources into the electricity system with new storage and flexibility options  
Matthias Koch, Energy & Climate, Öko-Institut, Dierk Bauknecht  

4 - Energy Security: A Robust Programming Approach and Application to European Energy Supply via TIAM  
Frédéric Babonneau, Ordecsys and EPFL, Maryse Labriet, Richard Loulou, Jean-Philippe Vial

---

**WC-15**  
Wednesday, 13:30-15:00, Room F-175  

**Stochastic control**  
Stream: Stochastic programming, stochastic modeling and simulation  
Chair: Juri Hinz, Logistics, Zurich University of Applied Sciences  

1 - A least squares Monte Carlo method for problems of optimal stochastic control with convex value functions  
Juri Hinz, Logistics, Zurich University of Applied Sciences  

2 - Risk-Sensitive Average Optimality in Markov Decision Processes  
Karel Sladky, Department of Econometrics, Institute of Information Theory and Automation, Academy of Sciences of the Czech Republic  

3 - Robust Markov Decision Processes  
Wolfram Wiesemann, Department of Computing, Imperial College of Science, Technology & Medicine  

4 - Comparison of China’s policy instruments to maintain oil supply security  
Ziming Zhu, Department of Management Science and Engineering, Tsinghua University  

5 - Optimal pricing decision of a service firm when facing two classes of customers  
Xiuli Chao, IOE, University of Michigan

---

**WC-17**  
Wednesday, 13:30-15:00, Room F-150  

**Banking, corporate finance and financial forecasting II**  
Stream: Financial modeling, risk management, banking  
Chair: Maria Mavri, Business Administration, University of the Aegean  

1 - Real Options Valuation of Abandoned Farmland  
Michi Nishihara, Graduate School of Economics, Osaka University  

2 - Modeling client rates and volumes of the Swiss savings accounts  
Florentina Paraschiv, Asset/Liabilities Management, ior/cf HSG  

3 - Kontraktgestaltung, Anreizsysteme und Kreditprolongation bei langfristiger Projektfinanzierung  
Claudia Fink, Banking and Finance, Karl Franzens Uni Graz  

4 - Branch location and service optimization of a bank network  
Maria Mavri, Business Administration, University of the Aegean, Vassilis Angelis

---

**WC-18**  
Wednesday, 13:30-15:00, Room F-123  

**Risk measures and risk management**  
Stream: Financial modeling, risk management, banking  
Chair: Roy Kwon, Mechanical and Industrial Engineering, University of Toronto  

1 - Heavy tails and risk measures  
Alejandro Balbás, Business Administration, University Carlos III of Madrid  

2 - Enhanced Indexation and Downside Risk Control  
Diana Roman, Mathematics, Brunel University
3 - The Regularization Aspect of Optimal-Robust Conditional Value-at-Risk Portfolios
Apostolos Fertis, IFOR, D-MATH, ETH Zurich, Michel Baes, Hans-Jakob Lüthi

4 - Market Price-Based Convex Risk Measures: A Distribution-Free Optimization Approach
Roy Kwon, Mechanical and Industrial Engineering, University of Toronto

■ WC-19
Wednesday, 13:30-15:00, Room E-18
Experimental economics II
Stream: Game theory, computational and experimental economics
Chair: Whan-Seon Kim, School of Business, Myongji University

1 - Honesty in Budgetary Reporting - an Experimental Study
Arleta Mietek, Institute of Statistics and Operations Research, University of Graz

2 - On the Welfare Effects of Social Security in a Model with Aggregate and Idiosyncratic Risk
Daniel Harenberg, Economics Department, University of Mannheim, Alexander Ludwig

3 - Measuring Social Values - the Role of Financial Incentives
Jürgen Fleiß, Department of Statistics and Operations Research, University of Graz, Ulrike Leopold-Wildburger, Arleta Mietek

4 - Agent-based Modeling and Simulations for Replicating Experimental Outcomes in Combinatorial Auctions
Whan-Seon Kim, School of Business, Myongji University

■ WC-20
Wednesday, 13:30-15:00, Room F-172
OR applied to health care II
Stream: Health, life sciences, bioinformatics
Chair: Teresa Melo, Business School, Saarland University of Applied Sciences

1 - Export of Health Services: An Assessment of Thailand’s Potential
Sujinda Chemsripong, Faculty of Management and Information Science, Naresuan University, Amir Mahmoud

2 - Analysis of two different regression models and bootstrapping
Fulya Gokalp, Statistics, Yildiz Technical University

3 - Students’ health awareness and its determinants
Gerhard Reichmann, Department of Information Science and Information Systems, University of Graz, Margit Sommersguter-Reichmann

4 - Engineering Incentives for Health Care Systems
Abhijit Deshmukh, School of Industrial Engineering, Purdue University, Brandon Pope, Andrew Johnson, James Rohack

■ WC-21
Wednesday, 13:30-15:00, Room F-109
Modeling network structure and dynamics
Stream: Network industries and regulation
Chair: Marco Laumanns, IBM Research - Zurich

1 - Knowledge Transfer within Production Networks: An NK-Model Approach
Markus Lang, University of Zurich, Patricia Deflorin, Helmut Dietl, Eric Lucas

2 - Time-continuous network problems
Simone Göttlich, School of Business Informatics and Mathematics, University of Mannheim

3 - Real life constraints in designing passive optical network architecture
Stanislas Francfort, CORE/M2V, Orange Labs, Cedric Hervet, Frederic Mouls, Matthieu Chardy

4 - Robust Optimization in Non-Linear Regression for Speech and Video Quality Prediction in Mobile Multimedia Networks
Charalampos Pitas, School of Electrical and Computer Engineering, National Technical University of Athens, Mobile Radiocommunications Laboratory, Apostolos Fertis, Athanasios Panagopoulos, Philip Constantinou

■ WC-22
Wednesday, 13:30-15:00, Room G-209
Real-world applications of mathematical optimization - opportunities and challenges
Stream: OR in industry, software applications, modeling languages
Chair: Anna Schreieck, Scientific Computing, BASF SE

1 - A Planning Tool for a Municipal Utility Company
Michael Bussieck, GAMS Software GmbH, Frank Hoster, Christian Jungbluth

2 - Optimization application with XPRESS-Mosel using distributed computing
Oliver Bastert, FICO

3 - Inventory optimization in an automated picking system
Ivo Neidlein, SSI Schäfer Noell GmbH

4 - Check-In Counter Planning via a Network Flow Approach
Torsten Fahle, Airport Systems Division, Inform GmbH

X-8
WC-23
Wednesday, 13:30-15:00, Room F-121

Rich vehicle routing II
Stream: Location, logistics, transportation and traffic
Chair: Verena Schmid, Faculty of Business, Economics and Statistics, University of Vienna

1 - A new approach for solving truck and trailer routing problems
Markus Pullmann, University of Cologne, Ulrich Derigs

2 - Transshipment in Collaborative Transportation Planning
Xin Wang, Business Studies & Economics, University of Bremen, Chair of Logistics, Herbert Kopfer

3 - A mixed mathematical model of blending and routing problems
Babak Farhang Moghaddam, Industrial Eng., Islamic Azad university- Parand branch, Elham Farhash, Amir Afshin Fatahi

4 - Large Neighborhood Search for solving the Bi-Objective Capacitated m-Ring-Star Problem
Verena Schmid, Faculty of Business, Economics and Statistics, University of Vienna, Richard Hartl

WC-24
Wednesday, 13:30-15:00, Room F-101

Location problems II
Stream: Location, logistics, transportation and traffic
Chair: H.a. Eiselt, University of New Brunswick

1 - Evaluation of well-know Spatial Clustering Algorithms with Obstacles
Stephan Tiesler, University of Jena, Faculty of Business and Economics, Johannes Kuhlmann

2 - A semidefinite programming approach for location problems
Justo Puerto, Estadistica e I.O., Universidad de Sevilla, Victor Blanco, Safae El. Haj Ben Ali

3 - k-staged two-dimensional guillotineable single knapsack problem
Luis Miguel Escobar Falcón, Maestría en Ing. Eléctrica, Universidad Tecnológica de Pereira, David Álvarez

4 - Covering Models for Undesirable Facilities
H.a. Eiselt, University of New Brunswick, Vladimir Marianov

WC-25
Wednesday, 13:30-15:00, Room F-104

Crew and driver scheduling
Stream: Location, logistics, transportation and traffic
Chair: Janny Leung, Systems Engineering & Engineering Management Dept., The Chinese University of Hong Kong

1 - Deterministic and stochastic models for Rota scheduling in public bus transport
Lin Xie, Business Information Systems, University of Paderborn, Marc Naumann, Leena Suhl

2 - Driver scheduling based on "driver-friendly" vehicle schedules
József Békési, Juhász Gyula Faculty of Education, Department of Applied Informatics, University of Szeged, Viktor Ágílán, János Balogh, Balazs David, Miklos Kresz, Attila Tóth

3 - A Column-and-Row Generation Algorithm for a Crew Planning Problem in Railways
A. Cetin Suyabatmaz, Faculty of Engineering and Natural Sciences, Sabanci University, Guvenc Sahin

4 - A column-generation approach to crew rostering using prohibited shift-sequences
Janny Leung, Systems Engineering & Engineering Management Dept., The Chinese University of Hong Kong, David S.W. Lai

WC-26
Wednesday, 13:30-15:00, Room F-153

Sports scheduling
Stream: Scheduling, time tabling and project management
Chair: Tony Hürlimann, Departement of Informatics, University of Fribourg

1 - Sport-Scheduling for the Swiss Ice Hockey League
Tony Hürlimann, Departement of Informatics, University of Fribourg

2 - On the separation in 2-period double round robin tournaments with minimum breaks
Lishun Zeng, Industrial Engineering and Management, Tokyo Institute of Technology, Shinji Mizuno

3 - Breaks, cuts, and patterns
Dries Goossens, Operations Research and Business Statistics (ORSTAT), Katholieke Universiteit Leuven, Frits Spieksma

4 - Minimum Cost Home-Away Assignment of Double Round-robin Tournament
Takashi Masuko, Department of Information and System Engineering, Chuo University, Tomomi Matsui

WC-27
Wednesday, 13:30-15:00, Room F-152

Scheduling with additional constraints
Stream: Scheduling, time tabling and project management
Chair: Ulrich Pferschy, Department of Statistics and Operations Research, University of Graz
Chair: Adam Janiak, Institute of Computer Engineering, Control and Robotics, Wroclaw University of Technology
1 - Machine scheduling problem with job dynamic ready times
Adam Janiak, Institute of Computer Engineering, Control and Robotics, Wroclaw University of Technology, Wladyslaw Janiak

2 - Scheduling with Load Carrier Constraints
Arne Mensendiek, Business Administration and Economics, Bielefeld University

3 - Lot-sizing and scheduling on parallel production lines with sequence-dependent setup times
Zeynep Sargut, Industrial Systems Engineering, Izmir University of Economics

**WC-28**
Wednesday, 13:30-15:00, Room F-180

**Perishability**
Stream: Production management, supply chain management
Chair: Pedro Amorim, Industrial Engineering and Management, Faculty of Engineering of Porto University

1 - A single-warehouse multi-store distribution system for a deteriorating item with different order quantity and inventory periods for the stores
Yousef Ghiami, School of Management, University of Southampton, Yue Wu

2 - Operational Supply Chain Planning of Perishable Products in a Multi-Objective Framework
Pedro Amorim, Industrial Engineering and Management, Faculty of Engineering of Porto University, Hans-Otto Guenther, Bernardo Almada-Lobo

**WC-29**
Wednesday, 13:30-15:00, Room F-118

**Network design & transshipment**
Stream: Production management, supply chain management
Chair: Christian Bierwirth, Martin-Luther-University Halle-Wittenberg

1 - Customer allocation with lateral transshipment: A hybrid fuzzy genetic algorithm
Hadi Honarvar Nazari, Industrial Engineering, University of Tehran

2 - Benders Decomposition for a strategic network design problem under NAFTA local content requirements
Katharina Mariel, Daimler AG/ University of Vienna, Stefan Minner

3 - Designing Production-Inventory-Transportation Systems with Capacitated Cross-Docks
Oded Berman, Rotman School of Management, University of Toronto, Hossein Abouee-Mehrizi

4 - Analysis of emergency transshipments under general demand distributions
Ralf Heim, Technology and Operations Management, University of Duisburg/Essen, Michael Manitz, Andreas Serin, Christian Wothke

5 - The Design of Make-To-Order Supply Networks by Means of Simulation-Optimization
Frank Meisel, Martin-Luther-University Halle-Wittenberg, Christian Bierwirth

**WC-30**
Wednesday, 13:30-15:00, Room G-212

**Customer choice modeling and game theory in revenue management**
Stream: Accounting and revenue management
Chair: Jochen Gönsch, Department of Analytics & Optimization, University of Augsburg

1 - Considering Airline Alliances: A Game Theoretic Approach
Daniel Kadatz, Wirtschaftsinformatik, Freie Universität Berlin, Catherine Cleophas

2 - Simulating Fare Class Choice Behaviour with Flexible Substitution Patterns in Airline Revenue Management
Frauke Seidel, Institut für Verkehrs wirtschaft, Universität Hamburg

3 - Consumer Choice Modelling in Product Line Pricing: Reservation Prices and Discrete Choice Theory
Stefan Mayer, Department of Analytics & Optimization, University of Augsburg, Jochen Gönsch

**WC-31**
Wednesday, 13:30-15:00, Room G-220

**Combinatorial optimization problems**
Stream: Metaheuristics and biologically inspired approaches
Chair: Franz Rothlauf, Lehrstuhl für Wirtschaftsinformatik und BWL, Universität Mainz

1 - An Enhanced Ant Colony System for the Sequential Ordering Problem
Roberto Montemanni, Istituto Dalle Molle di Studi sull’Intelligenza artificiale (IDSIA), Luca Maria Gambardella, Dennis Weyland

2 - A hybrid evolutionary algorithm for multi-objective simultaneous lot sizing, lot sequencing and workforce assignment on parallel machines
Stefan Holzmann, Information Systems, Production and Logistics Management, University of Innsbruck, Hubert Missbauer

3 - Metaheuristics for the Euclidean location-allocation problem with stochastic demand and unknown number of facilities
Jean-paul Arnaout, Industrial & Mechanical Engineering, Lebanese American University
Wednesday, 15:30-16:15

**WD-02**
Friday, 15:30-16:15, Room F-101

Nesterov: Convex optimization  
Stream: Semi-plenary lectures  
Chair: Stephan Dempe, Mathematics and Computer Sciences, Technische Universität Freiberg  
1 - Random Methods in Convex Minimization  
Yurii Nesterov, CORE, Université catholique de Louvain (UCL)

---

**WD-03**
Friday, 15:30-16:15, Room F-104

Isler: Revenue management  
Stream: Semi-plenary lectures  
Chair: Matthias Amen, Chair for Quantitative Accounting & Financial Reporting, University of Bielefeld  
Chair: Stefan Nickel, Institut fuer Operations Research, Universität Karlsruhe  
1 - Developments in Booking Control Optimization by Airline Revenue Management  
Karl Isler, Swiss International Air Lines

---

**WD-05**
Friday, 15:30-16:15, Room F-118

Embrechts: Risk management  
Stream: Semi-plenary lectures  
Chair: Erich Walter Farkas, Banking and Finance, University of Zurich  
1 - The modelling of rare events: From methodology to practice and back  
Paul Embrechts, Department of Mathematics, ETH Zurich

---

**WD-06**
Friday, 15:30-16:15, Room F-121

Vetschera: E-negotiations  
Stream: Semi-plenary lectures  
Chair: Ulrike Leopold-Wildburger, Statistics and Operations Research, Karl-Franzens-University  
1 - Analyzing e-negotiations from a quantitative and qualitative perspective  
Rudolf Vetschera, Dept. of Business Administration, University of Vienna

---

**WD-07**
Friday, 15:30-16:15, Room F-109

Wissenschaftspreis der GOR  
Stream: Award winner sessions  
Chair: Brigitte Werners, Management and Economics, Ruhr-University Bochum

---

Wednesday, 16:30-18:00

**WE-08**
Wednesday, 16:30-18:00, Room G-201

Nonsmooth optimization I  
Stream: Continuous optimization and control  
Chair: Vladimir Shikhman, Dept. Mathematics C, RWTH Aachen University  
1 - On Structure and Computation of Generalized Nash Equilibria  
Vladimir Shikhman, Dept. Mathematics C, RWTH Aachen University  
2 - A nonsmooth Newton method for disjunctive optimization problems  
Stephan Bietkofer, Institute of Data Analysis and Process Design, Zurich University of Applied Sciences, Diethard Klatte  
3 - Feasible solvers for semi-infinite programming with arbitrary index sets  
Paul Steuermann, Institute of Operations Research, Karlsruhe Institute of Technology  
4 - A Constructive Approach to Newton Methods in Nonsmooth Optimization  
Dominik Dorsch, Dept. Mathematics, RWTH Aachen University

---

**WE-09**
Wednesday, 16:30-18:00, Room G-204

Linear optimization and extensions  
Stream: Continuous optimization and control  
Chair: Alain B. Zemkoho, Mathematics and Computer Sciences, Technical University Bergakademie Freiberg  
1 - Klee-Minty’s LP and Dantzig’s Simplex Method  
Shinji Mizuno, Industrial Engineering and Management, Tokyo Institute of Technology, Tomonari Kitahara  
2 - Some results on the LP-Newton method  
Dennis Egbers, Institut für Mathematische Optimierung, Technische Universität Braunschweig  
3 - A Duality Theorem for Infinite Linear Programming: A Purely Linear-Algebraic Approach  
David Bartl, Department of Mathematics, University of Ostrava  
4 - An interval linear programming contractor  
Milan Hladik, Department of Applied Mathematics, Charles University, Faculty of Mathematics and Physics
**WE-10**

**Wednesday, 16:30-18:00, Room G-217**

**Mixed integer programming with engineering applications**

Stream: Discrete optimization, graphs and networks  
Chair: Lars Schewe, Fachbereich Mathematik, TU Darmstadt

1. **Planning escape routes in buildings**  
   Stefan Schmieder, Mathematics, Faculty of Science, Alexander Martin

2. **Optimal positioning of active components in trusses under multiple loads**  
   Sonja Friedrich, Fachbereich Mathematik, TU Darmstadt, Lars Schewe, Jakob Schelbert

3. **How to rout a pipe**  
   Jakob Schelbert, Chair of EDOM, University of Erlangen-Nuremberg, Lars Schewe, Sonja Friedrich

4. **Operative Planning of Water Supply Networks by Nonconvex MINLP**  
   Ambros Gleixner, Optimization, Zuse Institute Berlin (ZIB), Harald Held, Wei Huang, Stefan Vigerske

---

**WE-11**

**Wednesday, 16:30-18:00, Room G-221**

**Combinatorial optimization I**

Stream: Discrete optimization, graphs and networks  
Chair: Peter Recht, OR und Wirtschaftsinformatik, TU Dortmund

1. **The stable set polytope of claw-free graphs with stability number greater than three**  
   Claudio Gentile, IASI-CNR, Anna Galluccio, Paolo Ventura

2. **Combinatorial applications of a polynomial relaxation-type algorithm for linear inequalities**  
   Sergei Chubanov, University of Siegen

3. **Bounds on the cycle packing number for generalized Petersen graphs**  
   Eva-Maria Sprengel, Operations Research, Technische Universität Dortmund

4. **Packaging Euler-graphs with traces**  
   Peter Recht, OR und Wirtschaftsinformatik, TU Dortmund

---

**WE-12**

**Wednesday, 16:30-18:00, Room E-21**

**Complexity in decision making**

Stream: Decision analysis, decision support  
Chair: Olaf Tietje, FHO-Hochschule Rapperswil

1. **Scenario Generation: Combining Morphological Analysis and Design of Computer Experiments**  
   Axel Bloemen, TNO - Defense, Security and Safety, Ana Isabel Barros

---

**WE-14**

**Wednesday, 16:30-18:00, Room F-174**

**Hydropower planning**

Stream: Energy, environment and climate  
Chair: Andreas Eichhorn, Asset Portfolio Management, Research (STA), VERBUND Trading AG

1. **Evaluation of storage power plants in liberalized electricity markets**  
   Dominik Möst, Chair of Energy Economics, Technische Universität Dresden, Friedrich Kunz, Alexander von Selasinsky

2. **Multi-objective Optimization Model for São Franciscos Hydroelectric Power Plants**  
   Regiane Barros, Energy Department, Unicamp, Debora Yamazaki Lacorte, Jéssica Pillon Torralba Fernandes, Paulo Correia

3. **Planning the usage of water tanks in water supply systems by combination of optimization and simulation**  
   Corinna Dohle, DS&OR Lab, University Paderborn, Leena Suhl

4. **Climate Change Impacts on Hydropower Production in Löntsch 2021-2050**  
   Eivind Helland, Handel und Vertrieb, Axpo AG, Pascal Hänggi, Sonja Angehrn, Eduard Zuur, Thomas Bosshard, Daniel Rietmann, Bruno Schädler, Robert Schneider, Rolf Weingartner

---

**WE-15**

**Wednesday, 16:30-18:00, Room F-175**

**Applications of stochastic optimization I**

Stream: Stochastic programming, stochastic modeling and simulation  
Chair: Gauthier de Maere d’Aertrycke, CORE, Université catholique de Louvain

1. **Two-stage stochastic mixed integer linear programming**  
   Jian Cui, Biochemical and Chemical Engineering, TU Dortmund
2 - Optimization of water network operation under uncertainties
   Ralf Lenz, Fachbereich Mathematik, FU Berlin, Guido Sand, Frederik Blank, Martin Weiser

3 - Estimation of the distribution of the marginal value of power plants in generation capacity expansion models
   Gauthier de Maere d’Aertrycke, CORE, Université catholique de Louvain, Alexander Shapiro, Yves Smeers

WE-16
Wednesday, 16:30-18:00, Room F-123

Queuing systems I
Stream: Stochastic programming, stochastic modeling and simulation
Chair: Kentaro Hoshi, Media Network Center, Waseda University

1 - Prioritized Limited Processor-Sharing System with its Performance Analysis
   Yoshiaki Shikata, Faculty of Informatics for Arts, Shobi University, Wataru Katagiri, Yoshitaka Takahashi

2 - Performance analysis of a finite-buffer batch-service queue with batch-size-dependent service under Markovian arrival process
   Umesh Gupta, Mathematics, Indian Institute of Technology Kharagpur, Anuradha Banerjee

3 - A Cost-Equation Analysis of General-Input General-Service Processor Sharing System
   Kentaro Hoshi, Media Network Center, Waseda University, Naohisa Komatsu, Yoshitaka Takahashi

WE-17
Wednesday, 16:30-18:00, Room F-150

Portfolio optimization
Stream: Financial modeling, risk management, banking
Chair: Bartosz Sawik, Department of Applied Computer Science, AGH University of Science & Technology

1 - Unbounded multiple-criteria discrete time portfolio choice problems
   Beatriz Balbas, Finance and Economic Analysis, University of Castilla-La Mancha

2 - Time consistent optimal stochastic pension funding
   Jorge Navas, Dpt. de Matematica economica, financiera i actuarial, Universitat de Barcelona, Ricardo Josa-Fombellida

3 - Practical usefulness of target prices in the equity allocation
   Mex Glawischnig, Finance, KF Uni Graz, Michael Murg

4 - Multi-criteria portfolio optimization with downside risk measure
   Bartosz Sawik, Department of Applied Computer Science, AGH University of Science & Technology

WE-19
Wednesday, 16:30-18:00, Room E-18

Game theory I
Stream: Game theory, computational and experimental economics
Chair: Joshua Ignatius, School of Mathematical Sciences, Universiti Sains Malaysia

1 - Dynamic General Equilibrium with Complete Markets and Collateral
   Felix Kubler, Banking and Finance, University of Zurich

2 - Fitting Economic Models with Structural Constraints
   Walter Pohl, Quantitative Business Administration, University of Zurich

3 - Characterisation of Stable Sets in Game with Transitive Preferences
   Takashi Matsuhisa, Department of Natural Science, Ibaraki National College of Technology

4 - A Game Theoretic Model for China’s Aviation Sector
   Joshua Ignatius, School of Mathematical Sciences, Universiti Sains Malaysia, Mark Goh, Lalitha Dhamothenar, Tian Siang Tan

WE-20
Wednesday, 16:30-18:00, Room F-172

OR applied to health care III
Stream: Health, life sciences, bioinformatics
Chair: Rainer Kolisch, TUM School of Management, Technische Universitaet Muenchen

1 - Robust capacity allocation for medical treatment units
   Sebastian Rachuba, Faculty of Management and Economics, Ruhr-University Bochum, Brigitte Werners

2 - Managing the flow of elective patients within hospitals
   Daniel Gartner, TUM School of Management, Technische Universitaet Muenchen, Rainer Kolisch

3 - A Proposed Linear Programming Masking Algorithm for Pattern Classification: Application to Health Databases
   Adriano Solis, Management Science Area, School of Administrative Studies, York University, Somnath Mukhopadhyay

WE-21
Wednesday, 16:30-18:00, Room F-109

Energy networks planning and operation
Stream: Network industries and regulation
Chair: Grit Walther, Schumpeter School of Business and Economics, Chair of Production and Logistics, Bergische Universitat Wuppertal
WE-22

Wednesday, 16:30-18:00, Room G-209

Impact of algebraic modeling languages
Stream: OR in industry, software applications, modeling languages
Chair: Michael Bussieck, GAMS Software GmbH
1 - Recent Enhancements in GAMS
   Lutz Westermann, GAMS Software GmbH, Michael Bussieck
2 - The Impact of Algebraic Modeling Languages on Optimization - Polylithic Modeling and Solution Approaches
   Josef Kallrath, GVC/S - B 9, BASF SE
3 - Roads, Housing Prices and Compensating Wage Differentials in Zurich
   Thomas Rutherford, ETH Zürich, Renger van Nieuwkoop
4 - Optimization Modeling using R
   Ronald Hochreiter, Finance, Accounting and Statistics, WU Vienna University of Economics and Business

WE-23

Wednesday, 16:30-18:00, Room F-121

Rich vehicle routing III
Stream: Location, logistics, transportation and traffic
Chair: Richard Hartl, Dept of Management, University of Vienna
1 - A New Model and Heuristic Algorithm for Multi-trip Vehicle Routing Problems with Stochastic Travel Times
   Maryam SteadieSeifi, IE&IS, TU/e, Abbas Seifi
2 - Solving Stochastic Vehicle Routing Problems using GPGPU
   Dennis Weyland, IDSIA, Roberto Montemanni, Luca Maria Gambardella
3 - A hybrid metaheuristic for the multiple depot vehicle routing problem with mix pickups and deliveries
   Li Jian, College of Engineering, Nanjing Agricultural University, Huang Zuqing, Qingli Da
4 - UCAV Fleet Routing Problem with Split Deliveries
   Sezgin Kilic, Industrial Engineering, Turkish Air Force Academy, Tuncay Sari, Volkan Cakir
5 - Solving Vehicle Routing Problems with a Unified Variable Neighborhood Search Framework
   Stefanie Kritzinger, Department of Business Administration, University of Vienna, Fabien Tricoire, Karl Doerner, Richard Hartl

WE-24

Wednesday, 16:30-18:00, Room F-101

Location problems III
Stream: Location, logistics, transportation and traffic
Chair: John Carlsson, Industrial and Systems Engineering, University of Minnesota
1 - Minimizing strategic investments and operational costs in median systems subject to uncertain disruption types
   Chaya Losada, Mathematical and Information Science, Nanzan University, Atsuo Suzuki
2 - Evaluating locations of flow-capturing facilities on a railway network from multiple objectives
   Ken-ichi Tanaka, The University of Electro-Communications, Takehiro Furuta
3 - Optimization of helipad locations for helicopter emergency medical systems focusing on “J-turn” flights
   Takehiro Furuta, Management Science, Tokyo University of Science, Ken-ichi Tanaka
4 - Three formulations of the multi-type capacitated facility location problem
   Andreas Klose, Department of Mathematical Sciences, Aarhus University
5 - Dividing a territory among several facilities
   John Carlsson, Industrial and Systems Engineering, University of Minnesota

WE-25

Wednesday, 16:30-18:00, Room F-104

Airline, airport and air traffic management
Stream: Location, logistics, transportation and traffic
Chair: Sonia Cafieri, Dept. de Mathematiques et Informatique, Ecole Nationale d’Aviation Civile
1 - Scheduling of outbound luggage handling at airports
   Torben Barth, DTU Management / Fraport AG, David Pisinger
2 - Delay Propagation in Re-Scheduled Queueing Systems
   Claus Gwiggner, ATM Modeling Group, Electronic Navigation Research Institute, Sakae Nagaoka
3 - Nonlinear optimization models for aircraft collision avoidance with horizontal maneuvers based on heading angle changes

4 - Aircraft deconfliction: a heuristic based on local exact solutions
Sonia Cafieri, Dept. de Mathematiques et Informatique, Ecole Nationale d’Aviation Civile

WE-26
Wednesday, 16:30-18:00, Room F-153
Healthcare scheduling
Stream: Scheduling, time tabling and project management
Chair: Sigrid Knust, Institute of Computer Science, University of Osnabrück
1 - Efficient evaluation of out-patient scheduling with unpunctuality
Dieter Fiems, Ghent University, Stijn De Vuyst
2 - Staff rostering at a home health care service
Mareike Paul, University of Osnabrück, Sigrid Knust
3 - How to cope with rostering in small healthcare institutions
Michael Krause, Clausthal University of Technology
4 - Long-term home care scheduling
Mette Gamst, University of Southern Denmark, Thomas Sejr Jensen

WE-27
Wednesday, 16:30-18:00, Room F-152
Job-shop scheduling
Stream: Scheduling, time tabling and project management
Chair: Reinhard Bürgy, Dept of Informatics, University of Fribourg
1 - The Blocking Job-Shop with Rail-Bound Transfer
Reinhard Bürgy, Dept of Informatics, University of Fribourg, Heinz Gröllin
2 - Optimal Capacity Expansion in Fixed Job Scheduling
Deniz Türel Eliiyi, Department of Industrial Systems Engineering, Izmir University of Economics
3 - A Computational Study on Local Search Neighbourhoods for the Job-Shop Scheduling Problem with a Tardiness Objective
Jens Kahpfahl, School of Economics and Business, Chair of Production and Logistics, MLU Halle-Wittenberg, Christian Bierwirth
4 - A generalized Job-Shop Problem with more than one resource demand per task
Cornelius Schwarz, Chair of Business Mathematics, University of Bayreuth, Joachim Schauer

WE-28
Wednesday, 16:30-18:00, Room F-180
Scheduling & queueing
Stream: Production management, supply chain management
Chair: Raik Stolletz, Chair of Production Management, University of Mannheim
1 - A continuous-time MILP-approach to short-term scheduling of make-and-pack production processes
Philipp Baumann, Department of Business Administration, University of Bern, Norbert Trautmann
2 - Sequencing and Scheduling for Filling Lines in Dairy Production
Wiebke Höhn, Institut für Mathematik, Technische Universität Berlin, Rolf Möhring, Torsten Gellert
3 - Hybrid particle swarm optimization to simultaneously minimize total tardiness and unavailability system in parallel machine scheduling
Ali Berrichi, LIMOSE, Computer Science department, University Mhamed Bougara of Boumerdes, Farouk Yalaoui
4 - Managing Production Scheduling and Product Substitution for a Multi-item Make-to-Stock Queue
Nursem Tore, Industrial Engineering, Middle East Technical University, Sicil Savasander, Yasemin Serin
5 - Analyzing the dynamic behavior of queueing systems
Gregor Selinka, Chair of Production Management, University of Mannheim, Raik Stolletz

WE-29
Wednesday, 16:30-18:00, Room F-118
Inventory I
Stream: Production management, supply chain management
Chair: Rob Broekmeulen, OPAC, TU Eindhoven
1 - Approximate Parametric Dynamic Programming applied to Inventory Management
Stefan Woerner, IBM Research - Zurich, Marco Laumanns, Rico Zenklusen, Apostolos Fertis, Eleni Pratsini
2 - Multi-item Two-echelon Spare Parts Inventory Control Problem with Batch Ordering in the Central Warehouse under Compound Poisson Demand
Z. Pelin Bayindir, Department of Industrial Engineering, Middle East Technical University, Engin Topan
3 - Optimal (R, nQ) Policies for Serial Inventory Systems with Guaranteed Service Approach
Peng Li, Recherche Opérationnelle Statistique Simulation, Université de Technologie de Troyes, Haoxun Chen
4 - Optimizing transportation and handling costs by setting parameters for a replenishment system in a retail supply chain

Rob Broekmeulen, OPAC, TU Eindhoven, Karel van Donselaar

WE-30

Wednesday, 16:30-18:00, Room G-212

Integrating revenue management and customer relationship management

Stream: Accounting and revenue management

Chair: Johannes Kolb, University of Augsburg

1 - Coordinating Short-term and Long-term Performance of Revenue Management

Volker Ruff, Chair of Logistics and Supply Chain Management, University of Mannheim, Moritz Fleischmann

2 - Customer Loyalty-Based Revenue Management in Cloud Computing

Michael Mohaupt, TU Dresden

3 - On the Integration of Customer Lifetime Value into Revenue Management

Johannes Kolb, University of Augsburg

WE-31

Wednesday, 16:30-18:00, Room G-220

Metaheuristics in practice

Stream: Metaheuristics and biologically inspired approaches

Chair: Luca Maria Gambardella, IDSIA

1 - Evolutionary Exploration of E/E-Architectures in Automotive Design

Ralph Moritz, Robert Bosch GmbH, Tamara Ulrich, Lothar Thiele

2 - Modeling Complex Crop Management-Plant Interactions in Potato Production under Climate Change

Niklaus Lehmann, Agricultural and Food Sciences, ETH Zurich, Robert Finger, Tommy Klein

3 - Genetic Algorithm Based Method for Water Distribution Location Problem

Erdem Aksakal, Industrial Engineering, Engineering Faculty, M. Ali Akcayol, Metin Dagdeviren

4 - Multiobjective Simulation Optimization for Operating Room Scheduling Problems

Felipe Baesler, Industrial Engineering, Universidad del Desarrollo, Oscar Cornejo
Thursday, 08:30-10:00

■ TA-07
Thursday, 08:30-10:00, Room F-109

GOR Master Awards 2011
Stream: Award winner sessions
Chair: Katja Schimmelpfeng, LS Rechnungswesen und Controlling, BTU Cottbus

1 - Practical Stochastic Programming using Algebraic Modeling Systems
Timo Lohmann, TU Braunschweig

2 - When is rounding allowed? A level set approach to integer nonlinear optimization.
Ruth Hübner, Institut für Numerische und Angewandte Mathematik, Georg-August-Universität Göttingen

3 - Primal Heuristics for Branch-and-Price Algorithms
Christian Puchert, Operations Research, RWTH Aachen University

■ TA-08
Thursday, 08:30-10:00, Room G-201

Bilevel programming and MPECs
Stream: Continuous optimization and control
Chair: Stephan Dempe, Mathematics and Computer Sciences, Technische Universität Freiberg

1 - Variational analysis and optimality conditions for the O-D matrix adjustment problem
Alain B. Zemkoho, Mathematics and Computer Sciences, Technical University Bergakademie Freiberg, Stephan Dempe

2 - An algorithm for solving a class of bilevel programming problems
Susanne Franke, TU Bergakademie Freiberg, Stephan Dempe

3 - Global solution of mixed-integer bilevel programming problem
Zhaohui Xu, Fakultät für Mathematik

4 - Distributed solution of monotone VI-constrained (hemi)variational inequalities
Francisco Facchinei, Universita’ di Roma “La Sapienza”, Jong-Shi Pang, Gesualdo Scutari, Lorenzo Lampariello

■ TA-09
Thursday, 08:30-10:00, Room G-204

Optimal control III
Stream: Continuous optimization and control
Chair: Andrey Albu, Applied optimization problems, Institution of Russian Academy of Sciences Dorodnicyn Computing Centre of RAS

1 - Impulse Control in Operations Research: Necessary Optimality Conditions, Sufficiency and Existence
Mohammed Chahim, Econometrics and Operations Research, Tilburg University, Richard Hartl, Peter M. Kort

2 - On the maximum principle for infinite-horizon optimal control problems with dominating discount
Vladimir Veliov, Institute of Mathematical Methods in Economics, Vienna University of technology

3 - Chetayev Stability Postulate in complex Systems Dynamics
Lyudmila Kazmina, Theoretical mechanics, Kazan State Technical University - Kazan Aviation Institute - National Research University

4 - On the controlling of liquid metal solidification in foundry practice
Andrey Albu, Applied optimization problems, Institution of Russian Academy of Sciences Dorodnicyn Computing Centre of RAS, Vladimir Zubov

■ TA-10
Thursday, 08:30-10:00, Room G-217

Network flow problems
Stream: Discrete optimization, graphs and networks
Chair: Mujahed Eleyat, Miriam AS

1 - Computing the probability mass function of the maximum flow through a reliable network
Megha Sharma, Operations Management, Indian Institute of Management Calcutta, Dipesh Ghosh

2 - A polynomial time approximation algorithm for the two-commodity splittable flow problem
Elke Eisenschmidt, Department of Mathematical Optimization, Otto-von-Guericke Universität, Utz-Uwe Haus

3 - A Parametric Flow Problem and its Application in Location Theory
Johannes Hatzl, Department of Optimization and Discrete Mathematics, Graz University of Technology

4 - Parallel algorithms for the maximum flow problem with minimum lot sizes
Mujahed Eleyat, Miriam AS, Dag Haugland, Magnus Lie Hetland, Lasse Natvig

■ TA-11
Thursday, 08:30-10:00, Room G-221

Applications in logistics
Stream: Discrete optimization, graphs and networks
Chair: Ralf Borndörfer, Optimization, Zuse-Institute Berlin

1 - Minimum Cost Hyperassignments with Applications to ICE/IC Rotation Planning
Olga Heismann, Zuse Institute Berlin, Ralf Borndörfer

2 - 1D vehicle scheduling with conflicts
Torsten Gellert, Institut für Mathematik, Technische Universität Berlin, Felix G. König

3 - The Train Marshalling Problem - Online Algorithms and Bounds
Florian Dahms, Chair of Operations Research, RWTH Aachen, Sven Krumke, Katharina Beygang
4 - The Steiner Connectivity Problem
Ralf Borndörfer, Optimization, Zuse-Institute Berlin, Marika Neumann, Marc Pfetsch

TA-12
Thursday, 08:30-10:00, Room E-21

Multiple criteria decision making I
Stream: Decision analysis, decision support
Chair: Evelina Trutnevye, Institute for Environmental Decisions (IED), Natural and Social Science Interface (NSSI), ETH Zurich

1 - Ranking of qualitative decision options using copulas
Biljana Mileva-Boshkoska, Department of Knowledge Technologies, Jožef Stefan Institute, Marko Bohanec

2 - An approach to handling preferences based on local trade-off information in interactive MCDM methods
Jussi Hakanen, Dept. of Mathematical Information Technology, University of Jyväskylä, Dmitry Podkopaev

3 - Integral Indicators and Expert Estimations of Ecological Impact
Mikhail Kuznetsov, Moscow Institute of Physics and Technology, Vadim Strijov

4 - Mathematical model to optimize and assess a dairy farm characterized by crop-livestock integration: Consideration of economic, logistic, social and environmental aspects
Augusto Gameiro, Department of Animal Nutrition and Production, University of São Paulo, Cleber Rocco, Jose Vicente Caixeta-Filho

TA-14
Thursday, 08:30-10:00, Room F-174

Decision support for energy and environmental systems
Stream: Energy, environment and climate
Chair: Petr Mariel, Department of Applied Economics III, University of the Basque Country

1 - Operative Decision Support in Natural Gas Portfolio Management on Liberalized Markets
Bastian Meier, Chair of Business Informatics, Faculty of Computer Science and Electrical Engineering

2 - A decision support system for changes in public transportation networks to meet CO2-efficiency requirements
Kathrin Kirchner, Faculty of Business and Economics, Friedrich Schiller University Jena, Stephan Tiesler, Johannes Ruhlman

3 - Non-attendance in choice experiments in the context of environmental valuation: A simulation experiment
Petr Mariel, Department of Applied Economics III, University of the Basque Country, Juergen Meyerhoff, David Hoyos

TA-15
Thursday, 08:30-10:00, Room F-175

Stochastic optimization II
Stream: Stochastic programming, stochastic modeling and simulation
Chair: Daniel Kuhn, Department of Computing, Imperial College London

1 - On solving strong multi-stage nonsymmetric stochastic mixed 0-1 problems
Gloria Pérez, Applied Mathematics and Statistics and Operational Research, Universidad del País Vasco, Laureano Fernando Escudero, María Araceli Garín, María Merino

2 - Solving linearly-constrained nonlinear stochastic problems
Eugenio Mijangos, Applied Mathematics and Statistics and Operations Research, UPV/EHU

3 - Shape Optimization under Uncertainty from Stochastic Programming Perspective
Rüdiger Schultz, Mathematics, University of Duisburg-Essen

4 - Distributionally Robust Joint Chance Constraints with Second-Order Moment Information
Daniel Kuhn, Department of Computing, Imperial College London, Steve Zymler, Berc Rustem

TA-16
Thursday, 08:30-10:00, Room F-123

Simulation and inventory control
Stream: Stochastic programming, stochastic modeling and simulation
Chair: Cristian Pelizzari, Department of Quantitative Methods, University of Brescia

1 - Economic order quantity of a kitting process with stochastic demand and reordering times
Eline De Cuypere, TELIN, University Ghent, Dieter Fiems

2 - An Agent-Based Simulation of the Relationship between Quality Management and Productivity
Bazin Jamshidnezhad, The University of Melbourne, Alan Smith

3 - Order fulfillment and replenishment policies in substitutable item inventory systems
Beyazıt Ocaktan, Industrial Engineering, Sakarya University, Ufuk Kula

4 - A Markov chain method to bootstrap multivariate continuous processes
Cristian Pelizzari, Department of Quantitative Methods, University of Brescia, Roy Cerqueti, Paolo Falbo, Gianfranco Guastaroba
**TA-17**

Thursday, 08:30-10:00, Room F-150

**VaR, risk measures and portfolio insurance**

Stream: Financial modeling, risk management, banking
Chair: Sergey Sosnovskiy, Frankfurt School of Finance and Management

1. **Solving VaR Minimization Models with LP Techniques**
   Chunhui Xu, Risk Science in Finance and Management, Chiba Institute of Technology, Xiaolin Huang, Yanli Huo, Shuning Wang

2. **Robust Convex Measures of Risk**
   David Wozabal, Business Administration, University of Vienna, Georg Pflug, Alois Pichler

3. **Growth Optimal Portfolio Insurance in Continuous and Discrete Time**
   Sergey Sosnovskiy, Frankfurt School of Finance and Management, Ursula Walther

**TA-19**

Thursday, 08:30-10:00, Room E-18

**Game theory II**

Stream: Game theory, computational and experimental economics
Chair: Mark Van Lokeren, MOSI, Vrije Universiteit Brussel

1. **Learning in Highly Polarized Conflicts**
   Sigifredo Laengle, Department of Management Control, University of Chile, Gino Loyola

2. **Points scoring systems in Formula 1: A game theoretic perspective**
   Krystsina Bakhrankova, Applied economics, SINTEF - Technology and society

3. **Numerical Simulation of the Overlapping Generations Models with Indeterminacy**
   Zhihang Feng, Banking and Finance, University of Zurich

4. **Nash equilibria in a two-dimensional Downsian competition**
   Mark Van Lokeren, MOSI, Vrije Universiteit Brussel, Philippe Cara

**TA-20**

Thursday, 08:30-10:00, Room F-172

**Bioinformatics I**

Stream: Health, life sciences, bioinformatics
Chair: Florian Frommlet, Medical Statistics, Medical University Vienna

1. **Prize-collecting Steiner trees in biological networks**
   Gunnar Klau, Life Sciences group, Centrum Wiskunde & Informatica (CWI)

2. **Lagrangian relaxation applied to global network alignment**
   Mohammed El-Kebir, CWI, Gunnar Klau

3. **Algorithms for the Minimum String Cover Problem and Applications to Biopolymer Sequences**
   Sven Rahmann, Computer Science 11, TU Dortmund, Chris Schwiegelshohn, Tobias Marschall

4. **Reconstructing Supertrees: The Matrix Representation with Flipping Problem and the FlipCut Heuristic**
   Sebastian Böcker, Maths and Computer Science, Friedrich-Schiller-Universität Jena

5. **Antelope - a Lagrangian relaxation approach to the de novo peptide sequencing problem**
   Sandro Andreotti, Institut für Informatik, Freie Universität Berlin, Gunnar Klau, Knut Reinert

**TA-22**

Thursday, 08:30-10:00, Room G-209

**Software and modeling languages**

Stream: OR in industry, software applications, modeling languages
Chair: Guido Diepen, AIMMS

1. **Easy deployment of your OR-based solutions**
   Guido Diepen, AIMMS

2. **Robust k-flexible manufacturing using Robust Optimization features in AIMMS**
   Ovidiu Listes, AIMMS, Frédéric Babonneau, Jean-Philippe Vial

3. **OpenSolver - An Open Source COIN-OR Solver for Excel**
   Andrew J Mason, Dept Engineering Science, University of Auckland

4. **Touch Typing Trainer System**
   Isao Aruga, Department of Information and System Engineering, Chuo University, Tomomi Matsui

**TA-23**

Thursday, 08:30-10:00, Room F-121

**Pickup and Delivery / Dial-a-Ride**

Stream: Location, logistics, transportation and traffic
Chair: Sophie Parragh, INESC Porto / IBM CAS Portugal

1. **A new approach to handling ride-time constraints in column generation for the dial-a-ride problem**
   Timo Gschwind, Johannes Gutenberg University Mainz

2. **Optimal timing computation for quality service in a Dial a Ride Problem**
   Ahmed Atahran, Informatique, Université François Rabelais, Christophe Lénté, T’kindt Vincent

3. **A study on the application of plan building and plan improvement heuristics on a real world heterogeneous m-PDPSTW**
   Srinivasa Ragavan Devanathan, Institut für Angewandte Forschung, Hochschule Offenburg, Klaus Dörer, Stefan Glaser
4 - The dial-a-ride problem with split requests and profits
Sophie Parragh, INESC Porto / IBM CAS Portugal, Bernardo Almada-Lobo, Jorge Pinho de Sousa

TA-24
Thursday, 08:30-10:00, Room F-101

Healthcare and humanitarian logistics
Stream: Location, logistics, transportation and traffic
Chair: Karl Doerner, Institute for Production and Logistics Management, Johannes Kepler University Linz
1 - Centralized Scheduling and Resource Allocation in Natural Disaster Management
Felix Wex, Chair for Information Systems Research, Albert-Ludwigs-Universität Freiburg, Guido Schryen, Dirk Neumann
2 - An Assignment-Based Approach for Distributing Donated Items to Indigent Residents
Aybike Özdemirel, İzmir University of Economics, Deniz Türsel Eliiyi, Burak Gokgur
3 - A transshipment model for relief item redistribution in overlapping disaster situations
Beate Rottkemper, Institute for Operations Research and Information Systems, Hamburg University of Technology, Kathrin Fischer, Alexander Blecken
4 - Emergency room scheduling featuring optimization of intra-hospital routing
Karl Doerner, Institute for Production and Logistics Management, Johannes Kepler University Linz, Verena Schmid

TA-25
Thursday, 08:30-10:00, Room F-104

Urban traffic and transportation
Stream: Location, logistics, transportation and traffic
Chair: Basil Vitins, Civil, Environmental and Geomatic Engineering, ETH Zurich
1 - Studies on the optimal traffic signal switching time at an intersection
Mingzhe Li, Faculty of Economics, Fukuoka University
2 - Decision support for inner city public transportation system
Secil Savasanebil, Department of Industrial Engineering, Middle East Technical University, Z. Pelin Bayindir, Ugur Cetin, Nurbana Ince
3 - An Optimal Management of Battery Switch Stations for Electric Vehicles Based on Queueing Network Theory
Yudai Honma, Waseda Institute for Advanced Study, Waseda University
4 - An Integrated and Adaptive Ant Colony and Genetic Algorithm for Transport Network Design
Basil Vitins, Civil, Environmental and Geomatic Engineering, ETH Zurich, Kay Axhausen

TA-27
Thursday, 08:30-10:00, Room F-152

Project scheduling
Stream: Scheduling, time tabling and project management
Chair: Christoph Schwindt, Institute of Management and Economics, Clausthal University of Technology
Chair: Jürgen Zimmermann, Operations Research, TU Clausthal
1 - Project scheduling with activity preemptions: Problem classification and representation of schedules
Tobias Haselmann, Operations Management Group, Clausthal University of Technology, Christoph Schwindt
2 - On a multi-project staffing problem with heterogeneously skilled workers
Matthias Walter, Institut für Wirtschaftswissenschaft, Technische Universität Clausthal, Jürgen Zimmermann
3 - Mixed-integer linear programming models for resource leveling problems
Julia Rieck, Department for Operations Research, Clausthal University of Technology, Jürgen Zimmermann, Thorsten Gather
4 - Lower Bounds for an industrial Multi-Skill Project Scheduling Problem (MSPSP)
Cheikh Dhib, Laboratoire d’informatique de l’université de Tours, Anis Kooli, Ameur Soukhal, Emmanuel Néron

TA-28
Thursday, 08:30-10:00, Room F-180

Assembly & maintenance
Stream: Production management, supply chain management
Chair: Ralf Gössinger, Business Administration, Production and Logistics, University of Dortmund
1 - A systematic study on the simple assembly line balancing problem
Christian Otto, Management Science, FSU Jena, Alena Otto, Armin Scholl
2 - Balancing hybrid disassembly lines with stochastic task times
Volkan Gümüşkaya, Industrial Engineering, Middle East Technical University, F. Tevhide Altekin, Z. Pelin Bayindir
3 - Mixed integer programming based maintenance scheduling for the Hunter Valley Coal Chain
Thomas Kalinowski, University of Newcastle, Natasha Boland, Hamish Waterer, Lanbo Zheng
4 - Optimizing the Cost and Throughput Gain of In-line Inspection in a Production Line
Israel Tirkel, Industrial Engineering & Management, Ben-Gurion University, Gad Rabinowitz
5 - Condition-based Maintenance Policy for decentralised Production/Maintenance-Control
Michael Kaluzny, Business Administration, Production and Logistics, University of Dortmund, Ralf Gössinger
### TA-29
#### Thursday, 08:30-10:00, Room F-118

**Allocation**
Stream: Production management, supply chain management
Chair: Moritz Fleischmann, Chair of Logistics and Supply Chain Management, University of Mannheim

1 - **Designing Supply Contracts for Empirical Retailers**  
Ulrich Thönnemann, School of Cologne, Michael Becker-Peth

2 - **Capacity choice and allocation under stockout-based substitution**  
Qingli Da, School of Economics and Management, Southeast University, Taoeng Ye, Fei Chen

3 - **Booking Limits in a Mixed Arrival Revenue Management Model**  
Yao Yang, Chair of Logistics and Supply Chain Management, University of Mannheim, Moritz Fleischmann

4 - **A Heuristic for Dual Sourcing with Capacity Reservation and Stochastic Spot Market Prices**  
Rainer Kleber, Faculty of Economics and Management, Otto-von-Guericke University Magdeburg, Karl Inderfurth, Peter Kelle

5 - **Real-time demand allocation in spare parts networks via rollout algorithms**  
Harold Tiemessen, Mathematical and Computational Sciences, IBM Research, Moritz Fleischmann, Geert-Jan van Houtum, Eleni Pratsini, Jo van Nunen

---

### TA-30
#### Thursday, 08:30-10:00, Room G-212

**Revenue management applications**
Stream: Accounting and revenue management
Chair: Sebastian Zurheide, Institute for Operations Research and Information Systems, Hamburg University of Technology (TUHH)

1 - **Revenue Optimization Models for Low Cost Carriers supporting connecting flights**  
Andreas Palm, University of Cologne, Ulrich Derigs, Benjamin Juds

2 - **Accommodating Complexity in Revenue Management**  
Benedikt Zimmermann, Wirtschaftsinformatik, Freie Universität Berlin, Catherine Cleophas, Philipp Bartke

3 - **A revenue management slot allocation model for liner shipping networks**  
Sebastian Zurheide, Institute for Operations Research and Information Systems, Hamburg University of Technology (TUHH), Kathrin Fischer

4 - **Capacity control for the locating of mass customized products**  
Thomas Volling, Institute of Automotive Management and Industrial Production, Technische Universität Braunschweig, Thomas Spengler

---

### TA-31
#### Thursday, 08:30-10:00, Room G-220

**New approaches**
Stream: Metaheuristics and biologically inspired approaches
Chair: Hassan Taheri, Mathematical Science, Khayyam University of Mashhad

1 - **Quantitative Analysis of Separate and Combined Performance of Local Searcher and Genetic Algorithm**  
Milan Djordjevic, DIST, UP FAMNIT

2 - **Diversified local search**  
Diptesh Ghosh, Production and Quantitative Methods, Indian Institute of Management, Ahmedabad, Sumanta Basu

3 - **Harmony Search for Binary Optimization Problems**  
Miriam Padberg, OR and Business Informatics, TU Dortmund

4 - **Intrusion detection based on swarm intelligence using mobile agent**  
Lynda Sellami, Computer science, University of Bejaia, Khaled Sellami, Rachid Chelouah

5 - **Solving Floorplanning Problem by Electromagnetic Meta-Heuristic Method**  
Hassan Taheri, Mathematical Science, Khayyam University of Mashhad, Eric Taillard

---

### Thursday, 10:30-11:15

**Judd: Large-scale dynamic programming**
Stream: Plenary lectures
Chair: Karl Schmedders, Business, University of Zurich

1 - **Numerically Efficient and Stable Algorithms for Solving Large Dynamic Programming Problems in Economics, Finance, and Climate Change Models**  
Kenneth Judd, Hoover Institution
TC-07
Thursday, 11:30-13:00

GOR PhD Awards 2011
Stream: Award winner sessions
Chair: Leena Suhl, DS&OR Lab, University of Paderborn

1 - The Gomory-Chvátal Closure: Complexity, Polyhedrality and Extensions
Juliane Dunkel, Massachusetts Institute of Technology

2 - Algorithmic Cost Allocation Games: Theory and Applications
Nam Dung Hoang, Optimization, Zuse Institute Berlin

3 - A Unified State-space and Scenario Tree Framework for Multi-stage Stochastic Optimization
Steffen Rebennack, Division of Economics and Business, Colorado School of Mines

TC-08
Thursday, 11:30-13:00

Fast gradient methods
Stream: Continuous optimization and control
Chair: Yurii Nesterov, CORE, Université catholique de Louvain (UCL)

1 - A randomized Prox-method for solving structured matrix saddle-point problems
Michel Baes, IFOR, ETH, Michael Bürgisser, Arkadi Nemirovski

2 - Efficiency of Randomized Coordinate Descent Methods on Minimization Problems with a Composite Objective Function
Martin Takac, The University Of Edinburgh, Peter Richtarik

3 - Certification of the fast gradient method in model predictive control
Stefan Richter, ETH Zurich

Olivier Devolder, CORE, Université catholique de Louvain (UCL), François Glineur, Yurii Nesterov

TC-09
Thursday, 11:30-13:00

Continuous optimization I
Stream: Continuous optimization and control
Chair: Dariusz Zagrodnij, Mathematics, Cardinal Stefan Wyszynski University
Chair: Ewa Bednarczuk, Modelling and Optimization of Dynamical Systems, Systems Research Institute

1 - A mountain pass theorem for vector-valued functions
Ewa Bednarczuk, Modelling and Optimization of Dynamical Systems, Systems Research Institute

2 - The concept of light robustness
Anita Schoebel, Fakultät für Mathematik, Georg-August Universität Göttingen

3 - P-regular nonlinear optimization
Alexey Tret’yakov, System Research Institute, PAS, Warsaw, Siedlce University of Natural Sciences and Humanities, Poland, Dorodnicyn Computing Center of RAS, Russia

4 - The positiveness of lower limits of the Hoffman constant in parametric polyhedral programs
Dariusz Zagrodnij, Mathematics, Cardinal Stefan Wyszynski University

TC-10
Thursday, 11:30-13:00

Combinatorial optimization with industrial applications
Stream: Discrete optimization, graphs and networks
Chair: Andreas Karrenbauer, Computer and Information Science, University of Konstanz

1 - Assigning Students to Schools for an Internship
Michael Stiglmayr, Institute of Mathematics, University of Wuppertal, Simon Goertz, Kathrin Klamroth

2 - Modelling and optimizing the punching of purlins on a multi-stamp machine
Eranda Cela, Department of Optimization and Discrete Mathematics, TU Graz, Elisabeth Gasner, Johannes Hatzl, Bettina Klinz, Jan Poschko

3 - Design of a new heuristic method for solving the SALBP-E
Jorge Burgos, universidad de cordoba, Joyce Burgos, Garzon Luis, Jorge Lopez, Luis Burgos

4 - A technique to solve combinatorial optimization problems in real-time devices
Andreas Karrenbauer, Computer and Information Science, University of Konstanz

TC-11
Thursday, 11:30-13:00

Decomposition techniques
Stream: Discrete optimization, graphs and networks
Chair: Marco Lübbecke, Operations Research, RWTH Aachen University

1 - Two-stage column generation and applications
Matteo Salani, IDSIA, Ilaria Vacca, Michel Bierlaire

2 - Automatic Dantzig-Wolfe Decomposition
Martin Bergner, Operations Research, RWTH Aachen University, Alberto Caprara, Fabio Furini, Marco Lübbecke, Enrico Malaguti, Emiliano Traversi

3 - A Two-Stage Column Generation Approach to the Capacitated Arc Routing Problem
Sarah Kirchner, Operations Research, RWTH Aachen, Marco Lübbecke
**TC-17**

Thursday, 11:30-13:00, Room F-150

**Market quality and efficiency**

Stream: Financial modeling, risk management, banking

Chair: Alexander Brauneis, University of Klagenfurt

1 - Filtering of affine processes  
**Josef Teichmann**, D-MATH, ETH Zurich

2 - The effect of different market opening structures on market quality - experimental evidence  
**Gernot Hinterleitner**, Philipp Hornung, Ulrike Leopold-Wildburger, Stefan Palan

**TC-16**

Thursday, 11:30-13:00, Room F-174

**Systems models in energy and agricultural markets**

Stream: Energy, environment and climate

Chair: Stefan Pickl, Department for Computer Science, Universität der Bundeswehr München

1 - A system dynamics model for the EU dairy industry  
**Dennis Bergmann**, Hochschule Darmstadt, **Andreas Thümmel**

2 - Comparison of different modeling approaches of the multi-layer location problem for bio-energy applications  
**Frank Schwaderer**, Institute for Industrial Production (IIP), Karlsruhe Institute of Technology (KIT), **Magnus Fröhling**, Frank Schultmann

3 - Assessing Embedded Energy with Input-Output Analysis - Results for the Austrian Economy  
**Michael Hartner**, TU Vienna

**TC-15**

Thursday, 11:30-13:00, Room F-175

**Queuing systems II**

Stream: Stochastic programming, stochastic modeling and simulation

Chair: Jean-Philippe Vial, University of Geneva

1 - N-Policy for Unreliable Server Machine Repair System with Mixed Standbys  
**G.C. Sharma**, School of Mathematical Sciences, IBS, Agra, **Madhu Jain**

2 - Server allocation in a hierarchical call centre  
**Ann van Ackere**, HEC, University of Lausanne, **Celia Glass**, Roger Knight

3 - Distributionally robust workforce scheduling in call centers with uncertain arrival rates  
**Jean-Philippe Vial**, ORDECSYS SA

**TC-14**

Thursday, 11:30-13:00, Room F-174

**Theoretical developments in decision analysis**

Stream: Decision analysis, decision support

Chair: Magdalena Six, Faculty of Business, Economics and Statistics, University of Vienna

1 - Decision support by pruning and ranking the pareto optimal set  
**Ties Brands**, Centre for Transport Studies, University of Twente, **Luc Wismans**, **Eric van Berkum**

2 - Learning utility functions from preference relations on graphs  
**Geraldine Bous**, Business Intelligence Practice, SAP Research Sophia Antipolis

3 - Solving Uni-directional Online Conversion Problems with a Secretary Algorithm  
**Esther Mohr**, Information and Technology Management, Saarland University, **Michael Dürrnbächer**, **Günter Schmidt**

4 - Multi product Newsvendor-problem, solution with NCP and a non-trivial effect  
**Benjamin Gotthardt**, Department of Production and Operations Management, Uni Graz, **Marc Reimann**

**TC-13**

Thursday, 11:30-13:00, Room F-123

**Multiple criteria decision making II**

Stream: Decision analysis, decision support

Chair: Pierre Kunsch, MOSI, Vrije Universiteit Brussel

1 - Why pair-wise comparison methods may fail when establishing MCDM rankings  
**Pierre Kunsch**, MOSI, Vrije Universiteit Brussel

2 - Selecting multimedia ontologies to be reused on the basis of the GMAA decision support system  
**Antonio Jiménez**, Departamento de Inteligencia Artificial, Universidad Politécnica de Madrid (UPM), **Alfonso Mateos**, Maria del Carmen Suárez-Figueorea, **Mariano Fernández-López**, Asunción Gómez-Pérez

3 - Extending DEX decision models: From hierarchies to networks  
**Rok Orel**, Research, Xlab, **Marko Bohanec**

4 - Toward a decision support system for aerial vehicles routing problems  
**Jana Ries**, Department of Mathematics, University of Portsmouth, **Alessio Ishizaka**, **Patrick Beullens**

**TC-12**

Thursday, 11:30-13:00, Room E-21

**Improved Column Generation for Highly Degenerate Master Problems**

Marco Lübbecke, Operations Research, RWTH Aachen University, Jacques Desrosiers, Jean-Bertrand Gauthier
3 - The Trend is not Your Friend! - A Demystification of Empirical Timing Success based on Asset Price Characteristics and its Compatibility with Market Efficiency
  Ursula Walther, Frankfurt School of Finance and Management, Peter Scholz

4 - Statistical sources of momentum trading profits
  Alexander Brauneis, University of Klagenfurt, Roland Mestel

■ TC-19
Thursday, 11:30-13:00, Room E-18

Game theory III
Stream: Game theory, computational and experimental economics
Chair: Theodorus S.H. Driessen, Department of Applied Mathematics, University of Twente

1 - An Algorithm for Computing the Integer Nucleolus of Multiples of Directed Simple Games
  Reiner Wolff, Department of Quantitative Economics, University of Fribourg

2 - Role of conjugate coalition and union of coalitions in computing the nucleolus of a cooperative TU games
  Durga Prasad Modekurti, Operations Management, Institute of Rural Management, Anand

3 - The Shapley rule for simple bargaining problems with a coalition structure
  Francesc Carreras, Applied Mathematics II, Technical University of Catalonia, Guillermo Owen

4 - Evaluation of the incidence of causes in systems with incomplete data
  Josep Freixas, Applied Mathematics 3, Technical University of Catalonia, Montserrat Pons

■ TC-20
Thursday, 11:30-13:00, Room F-172

Bioinformatics II
Stream: Health, life sciences, bioinformatics
Chair: Gunnar Klau, Life Sciences group, Centrum Wiskunde & Informatica (CWI)

1 - Modifications of BIC for data mining under sparsity
  Florian Frommlet, Medical Statistics, Medical University Vienna

2 - Discovering sequence motifs with optimal statistical significance using a branch-and-bound approach
  Tobias Marshall, CWI Amsterdam, Sven Rahmann

3 - Future Developments in DNA Sequencing
  Dirk Evers, Computational Biology, Illumina

4 - Computational challenges in next-generation sequencing
  Markus Bauer, Computational Biology Group, Illumina Cambridge

5 - Determining coding CpG islands by identifying regions significant for pattern statistics on Markov chains
  Alexander Schoenhuth, Centrum Wiskunde & Informatica

■ TC-22
Thursday, 11:30-13:00, Room G-209

Advances in modeling languages
Stream: OR in industry, software applications, modeling languages
Chair: Bjarni Kristjansson, Maximal Software, Ltd.
Chair: Robert Fourer, Industrial Engineering and Management Sciences

1 - MPL for Python and MPL for .Net - Introducing New Scripting and Library Interfaces for the MPL Modeling Language
  Bjarni Kristjansson, Maximal Software, Ltd.

2 - Optimization Modeling in Practice
  Sandip Pindoria, Maximal Software Ltd, Bjarni Kristjansson

3 - New and Forthcoming Developments in the AMPL Modeling Language and System
  Robert Fourer, Industrial Engineering and Management Sciences

4 - How to validate group models in pedestrian stream simulators: Proposal for basic tests
  Gerta Köster, Computer Science and Mathematics, University of Applied Sciences - Munich

■ TC-23
Thursday, 11:30-13:00, Room F-121

Dynamic vehicle routing
Stream: Location, logistics, transportation and traffic
Chair: Stephan Meisel, Carl-Friedrich Gauss Department, University of Braunschweig

1 - Waiting Strategies for Dynamic Routing of After Sales Service Vehicles
  Uli Suppa, Institut für Wirtschaftsinformatik, Technische Universität Braunschweig, Stephan Meisel, Dirk Christian Mattfeld

2 - Integration of request acceptance and route compilation in dynamic vehicle routing
  Joern Schoenberger, Operations Research and Supply Chain Management, RWTH Aachen, Herbert Koepfer

3 - Approximation Architectures for Dynamic Routing of a Service Vehicle
  Stephan Meisel, Carl-Friedrich Gauss Department, University of Braunschweig, Dirk Christian Mattfeld
4 - Dynamic bike relocation for rack-bound bike sharing systems
Viola Ricker, Carl Friedrich Gauß Fakultät, TU Braunschweig, Stephan Meisel, Dirk Christian Mattfeld

TC-27
Thursday, 11:30-13:00, Room F-152
Stochastic project scheduling
Stream: Scheduling, time tabling and project management
Chair: Rainer Kolisch, TUM School of Management, Technische Universität Muenchen
1 - Stochastic Resource-constrained Project Scheduling - A New Solution Approach and Experimental Insight
Rainer Kolisch, TUM School of Management, Technische Universität Muenchen, Chen Fang
2 - Experimental investigation of scheduling approaches for the stochastic resource-constrained multi-project scheduling problem
Thomas Fließner, TUM School of Management, Technische Universität Muenchen, Rainer Kolisch
3 - A dynamic programming algorithm for the project scheduling problem with NPV criterion
Evgeniya Martynova, Omsk State University
4 - Product rate variation on parallel machines
Joanna Jozefowska, Institute of Computing Science, Poznañ University of Technology

TC-28
Thursday, 11:30-13:00, Room F-180
Divers
Stream: Production management, supply chain management
Chair: Yun Fong Lim, Lee Kong Chian School of Business, Singapore Management University
1 - A Decision Support Model for Retail Assortment, Shelf Space and Price Planning
Alexander Hübner, Operations Management, Catholic University Eichstaett-Ingolstadt, Heinrich Kuhn
2 - A Study on the Assessment of Lean Implementation Success Factors in Indian Manufacturing Plants: An Empirical Investigation
Manimay Ghosh, Operations Management, Institute of Management Technology
3 - Robustness in purchase models with discount consideration
Kathrin Armborst, Faculty of Management and Economics, Ruhr-University Bochum, Brigitte Werners
4 - Cellular Bucket Brigades
Yun Fong Lim, Lee Kong Chian School of Business, Singapore Management University

TC-29
Thursday, 11:30-13:00, Room F-118
Coordination
Stream: Production management, supply chain management
Chair: Michael Wagner, Saint Mary’s College of California
1 - Channel coordination in a HMMS-type supply chain with profit sharing contract
Imre Dobos, Logistics and Supply Chain Management, Corvinus University of Budapest

2 - Supply Chain Coordination by Risk Sharing Contracts in the Case of Random Yield
Karl Inderfurth, Faculty of Economics and Management, Otto-von-Guericke University of Magdeburg, Josephine Clemens

3 - Coordination of product development processes in focal supply chains with uncertain development results
Kerstin Schmidt, Institute of Automotive Management and Industrial Production, Technische Universität Braunschweig, Thomas Völling, Thomas Spengler

4 - Sharing Manufacturer’s Information in a Supply Chain with Competing Retailers
Albert Ha, Information Systems, Business Statistics and Operations Management, Hong Kong University of Science and Technology

5 - The Benefit/Detriment of Information in Coordinating Supply Chains
Michael Wagner, Saint Mary’s College of California

TC-30
Thursday, 11:30-13:00, Room G-212

Quantitative accounting
Stream: Accounting and revenue management
Chair: Matthias Amen, Chair for Quantitative Accounting & Financial Reporting, University of Bielefeld

1 - Optimizing Impairment of Assets
Matthias Amen, Chair for Quantitative Accounting & Financial Reporting, University of Bielefeld

2 - The deductible on the D&O insurance - an agency theoretic analysis
Danny Behrendt, Economics and Management, Otto-von-Guericke-University Magdeburg, Anne Chwolka

3 - Incentives for risk reporting with potential market entrants
Nicole Kusemitsch, Lehrstuhl für Unternehmensrechnung/Accounting, Otto-von-Guericke Universität Magdeburg, Anne Chwolka

TC-32
Thursday, 11:30-13:00, Room G-220

Applications
Stream: Forecasting, neural nets and fuzzy systems
Chair: Hans-Jörg von Mettenheim, Leibniz Universität Hannover, Institut für Wirtschaftsinformatik

1 - Novel Approaches for Marketing Prediction: An Evaluation of Ensemble Selection for Forecasting Customer Churn
Stefan Lessmann, Institute of Information Systems, University of Hamburg

2 - Dimensionality Free Short-Term Comparative Optimisation Forecasting Model
Miltiades Filippou, Institut EURECOM, Markos Anastasopoulos, Panagiotis Zervopoulos

3 - Patent network analysis and association rules applied to forecast the evolution in telecommunication technology
Wonsang Lee, Information & Industrial Engineering, Yonsei University, So Young Sohn

4 - Modeling the Energy Supply of Wind Parks with Deep Neural Networks
Ralph Grothmann, Corporate Technology, Learning Systems (CT IC 4), Siemens AG, Hans Georg Zimmermann

5 - Multicriteria decision aid models for the prediction of securities class actions
Vassiliki Balla, Production Engineering and Management Department, Technical University of Crete, Fotios Pasiouras, Constantin Zopounidis

Thursday, 13:30-15:00

TD-07
Thursday, 13:30-15:00, Room F-109

GOR / SVOR PhD Awards 2011
Stream: Award winner sessions
Chair: Leena Suhl, Int. Graduate School of Dynamic Intelligent Systems, University of Paderborn
Chair: Daniel Costa

1 - Dynamic Fleet Management for International Truck Transportation - focusing on Occasional Transportation Tasks
Steffen Schorpp, Production&Logistics, Universität Augsburg

2 - Combining Robustness and Recovery for Airline Schedules
Niklaus Eggenberg, APM Technologies SA

TD-08
Thursday, 13:30-15:00, Room G-201

Nonsmooth optimization II
Stream: Continuous optimization and control
Chair: Vladimir Shikhman, Dept. Mathematics C, RWTH Aachen University

1 - Reconstruction of density functions by L2 norm minimization and semidefinite programming
Martin Mevissen, LAAS - CNRS, Didier Henrion, Jean Bernard Lasserre

2 - Generalized Differentiation of Solution Mappings in Function Spaces with Applications to Bi-level Programming
Thomas Surowiec, Department of Mathematics, Humboldt University of Berlin
3 - Calmness of feasible and optimal solution maps in semi-infinite optimization
Diethard Klatte, Institut für Operations Research, Universität Zürich, Bernd Kummer

Continuous optimization II
Stream: Continuous optimization and control
Chair: Anita Schoebel, Fakultät für Mathematik, Georg-August Universität Göttingen
1 - Range Approximation of Multivariate Rational Polynomials used in Global Optimization
Martin Stöcker, Fakultät Mathematik, Professur Wirtschaftsmathematik, Technische Universität Chemnitz
2 - Global minimization of twice continuously differentiable function over a polytope
Oleg Khamisov, Applied Mathematics, Institute of Energy System, Siberian Branch of the Russian Academy of Sciences, Mokryi Igor
3 - Continuous gradient-free optimization over polyhedral and convex quadratically constrained domains based on Gibbs sampling
Christian L. Müller, Computer Science, Institute of Theoretical Computer Science and Swiss Institute of Bioinformatics
4 - Continuous cutting stock optimization
Mihael Cesar, Business computing, Faculty of Economics, University of Ljubljana, Miro Gradisar, Luka Tomat

Mixed applications of combinatorial optimization
Stream: Discrete optimization, graphs and networks
Chair: Dominic Brenner, Quantitative Methoden und Wirtschaftsmathematik, FernUniversität in Hagen
1 - Hiding an Image into Different Images
Yuko Moriyama, Department of Information and System Engineering, Chuo University, Tomomi Matsui
2 - A mathematical approach for the piano fingering
Keisuke Hotta, Faculty of Information and Communication, Bunkyo University
3 - Optimal Piano Fingering Based on Inverse Optimization
Masako Wakamatsu, Department of Information and System Engineering, Chuo University, Tomomi Matsui
4 - An entropy-based method to reduce complexity in social network analysis
Dominic Brenner, Quantitative Methoden und Wirtschaftsmathematik, FernUniversität in Hagen, Friedhelm Kulmann

Nonlinear integer programming
Stream: Discrete optimization, graphs and networks
Chair: Anja Fischer, Chemnitz University of Technology
1 - Some Algorithms for The Quadratic Assignment Problem on Networks
Artem Lagzdin, Laboratory of Discrete Optimization, Omsk Branch of Sobolev Institute of Mathematics Siberian Branch of Russian Academy of Sciences, Gennady Zabudyk
2 - Improvement of SDP bounds for 0-1 quadratic programs
Duan Li, Systems Engineering & Engineering Management Dept., The Chinese University of Hong Kong
3 - A level set approach for integer nonlinear optimization
Ruth Hübner, Institut für Numerische und Angewandte Mathematik, Georg-August-Universität Göttingen, Anita Schoebel
4 - The Symmetric Quadratic Traveling Salesman Problem
Anja Fischer, Chemnitz University of Technology, Christoph Helmberg

Decision analysis for marketing
Stream: Decision analysis, decision support
Chair: Yumi Asahi, Department of engineering, Management of business, Shizuoka University
1 - Finite Mixture MNP versus Finite Mixture IP Models: A Comparison of Fit, Partworth Recovery and Predictive Validity
Friederike Paetz, Marketing, Clausthal University of Technology, Institute of Management and Economics, Winfried Steiner
2 - A Cross-Category Analysis: An application of the structured C-Logit Model
Takuya Adachi, Business Design & Management, Graduate School of WASEDA UNIVERSITY, Kei Takahashi, Hiroto Suzuki, Takahiro Ohno
3 - Decision Making Process Model with Price Acceptability in Japanese Vegetables
Yumi Asahi, Department of engineering, Management of business, Shizuoka University

Decision making under uncertainty
Stream: Decision analysis, decision support
Chair: Roland W. Scholz, Institute for Environmental Decisions (IED), Natural and Social Science Interface (NSSI), ETH Zurich
1 - A New Analytic Method to Study some Decision Models under Uncertainty: Applications to the Theory of the Firm
Alberto A. Álvarez-López, Quantitative Applied Economics II, UNED (National University of Distance Education), Inmaculada Rodríguez-puerta, Mónica Buendía

2 - Stabilization of the B factor in the Amplitude Model and the Model of Amplitude for Risk and Uncertainty
José G. Hernández R., Gestión de la tecnología, Universidad Metropolitana, María J. García G., Gilberto J. Hernández G.

3 - Decision Making Analysis in a Queuing System Where Customers Choose a Facility Based on their Experience and Considering Uncertainty
Carlos Delgado, HEC, University of Lausanne, Karthik Sankaranarayanan, Ann van Ackere, Erik Larsen

■ TD-14
Thursday, 13:30-15:00, Room F-174

Multi-objective decisions in energy markets
Stream: Energy, environment and climate
Chair: Johann Hurink, Department of Applied Mathematics, University of Twente

1 - A bi-criteria optimization model to analyze the impacts of electric vehicles on the electricity network
Bora Kabatepe, Industrial Engineering, Koç University, Metin Türkyay

2 - Feasibility on using carbon credits: A multi-objective model
Bruna Correia, Energy, State University of Campinas, Natália Adidas Porto, Paulo Correia

3 - A general model for the energy flows in the energy supply chain
Johann Hurink, Department of Applied Mathematics, University of Twente, Maurice Bosman

■ TD-15
Thursday, 13:30-15:00, Room F-175

Stochastic optimization III
Stream: Stochastic programming, stochastic modeling and simulation
Chair: Georg Pfug, Department of Statistics and Decision Support Systems, University of Vienna

1 - Are time consistent risk functionals (resp. acceptability functionals) information monotone?
Raimund Kovacevic, Statistics and Decision Support Systems, University Vienna, Georg Pfug

2 - Approximation quality for multistage stochastic programs
Georg Pfug, Department of Statistics and Decision Support Systems, University of Vienna

■ TD-17
Thursday, 13:30-15:00, Room F-150

Investment decision I
Stream: Financial modeling, risk management, banking
Chair: Andrew Clark, Investment & Advisory, Thomson Reuters

1 - Optimal investment timing under debt financing capacity constraint
Takashi Shibata, Graduate School of Social Sciences, Tokyo Metropolitan University, Michi Nishihara

2 - Portfolio selection models for small investors
Norbert Trautmann, Department of Business Administration, University of Bern, Philipp Baumann

3 - Does active management add value? New evidence from Spanish mutual funds
Amparo Soler, Universitat Jaume I, Juan Carlos Matallín-Saez, Emili Tortosa-Ausina

4 - An Extended Use of MOEAs in Stock Portfolio Construction and Optimization
Andrew Clark, Investment & Advisory, Thomson Reuters

■ TD-19
Thursday, 13:30-15:00, Room E-18

Computational economics
Stream: Game theory, computational and experimental economics
Chair: Olga Proncheva, Moscow Institute of Physics and Technology (MIPT)

1 - Combinatorial auction - an application in the Brazilian electric energy market
Elisa Bastos Silva, Energy Department, UNICAMP - State University of Campinas, Debora Yamazaki Lacorte, Paulo Correia

2 - A Determination of Optimal Periods of Due Diligence under a Bidding Contest
Tatsuya Terada, Business Design and Management, Graduate School of Waseda University, Kei Takahashi, Takahiro Ohno

3 - Cloud computing business model relevance for the user and for the provider under random demand
Ksenia Bestuzheva, Department of Applied Mathematics, State University of Management, Vladimir Soloviev

■ TD-22
Thursday, 13:30-15:00, Room G-209

Optimization in the energy industry
Stream: OR in industry, software applications, modeling languages
Chair: Michael Bussieck, GAMS Software GmbH
1 - Optimal Expansion of CO2 Emission Constrained Hydro-Dominated Power Systems
Steffen Rebennack, Economics and Business, Colorado School of Mines, Mario Veiga Pereira, Bruno Flach

2 - Decision Support in Reserve Energy Auctions
Stefan Janson, Energiemarkt Methoden & Modelle, EnBW Trading GmbH

3 - Power plant investment in coupled markets with high share of renewable generation
Nicole Gröwe-Kuska, Vattenfall Europe AG, Felix Färber

4 - OR in the Energy Market — Winning the Franz Edelman Award 2011
Peter Nieuwesteeg, Paragon Decision Technology B.V.

■ TD-23
Thursday, 13:30-15:00, Room F-121
Routing problems
Stream: Location, logistics, transportation and traffic
Chair: Stefan Irnich, Chair of Logistics Management, Gutenberg School of Management and Economics, Johannes Gutenberg University Mainz
1 - Improving Lower Bounds for the CARP with Gomory Cuts
Marcus Poggi de Aragão, Informatica, PUC - Rio, Rafael Martinelli, Diego Pecin

2 - On Sequential Algorithms for Conflict-Free Vehicle Routing
Kaspar Schüpbach, Institute for Operations Research, ETH Zurich

3 - NP-Hard Routing Problems in Logistics
Maren Martens, Optimization & Consulting, Axxom Software AG

4 - Cut-First Branch-and-Price-Second for the Capacitated Arc-Routing Problem
Stefan Irnich, Chair of Logistics Management, Gutenberg School of Management and Economics, Johannes Gutenberg University Mainz, Claudia Bode

■ TD-24
Thursday, 13:30-15:00, Room F-101
Tolls and prices
Stream: Location, logistics, transportation and traffic
Chair: Herbert Kopfer, Department of Business Studies & Economics, Chair of Logistics, University of Bremen
1 - Computing Network Tolls with Support Constraints
Max Klimm, Institut für Mathematik, Technische Universität Berlin, Tobias Harks, Ingo Kleinhert, Rolf Möhring

2 - An IP approach for an optimized toll enforcement
Elmar Swarat, Optimization, Zuse Institute Berlin, Ralf Borndörfer, Guillaume Sagnol

3 - The Value of Acquisition Price Differentiation in Reverse Logistics
Stefan Hahler, Chair of Logistics and Supply Chain Management, University of Mannheim, Moritz Fleischmann

4 - Generation and Evaluation of Bundle Bids for a Combinatorial Transport Auction
Tobias Buer, Department of Business Studies & Economics, Chair of Logistics, University of Bremen, Herbert Kopfer

■ TD-25
Thursday, 13:30-15:00, Room F-104
Railway operations and dispatching
Stream: Location, logistics, transportation and traffic
Chair: Ulrich Weidmann, Institute for Transport Planning and Systems, ETH Zurich
1 - Recoverable Robust Train Classification
Christina Büsing, Institut für Mathematik, Technische Universität Berlin, Jens Maue

2 - The Hump Yard Track Allocation Problem
Holger Flier, Institute of Theoretical Computer Science, ETH Zürich, Markus Bohlin, Jens Maue, Matus Mihalak

3 - Algorithms for adaptive train disposition in main stations
Martin Fuchsberger, D-Math, Insitute for Operations Research, ETH Zurich, Marco Laumanns

4 - Finding passenger routes that are robust against delays
Marie Schmidt, Georg-August Universitaet Goettingen, Marc Goerigk, Martin Knoth, Matthias Mueller-Hannemann, Anita Schoebel

■ TD-26
Thursday, 13:30-15:00, Room F-153
Logistics scheduling
Stream: Scheduling, time tabling and project management
Chair: Frits Spieksma, Operations Research and Business Statistics, Katholieke Universiteit Leuven
1 - Experience of Optimizing Fueling Decisions for Locomotives in Railroad Networks
Prem Kumar Viswanathan, TRANS-OR, ENAC, Ecole Polytechnique Federal de Lausanne

2 - The Lockmaster’s Problem
Frits Spieksma, Operations Research and Business Statistics, Katholieke Universiteit Leuven, Sofie Coene, Greet Van den Berghe

3 - Crane scheduling in road-rail terminals
Florian Bruns, Institute of Mathematics, Technical University of Clausthal, Sigrid Knust

4 - Integrated schedule planning with supply-demand interactions for a new generation of aircrafts
Bilge Atasoy, Transport and Mobility Laboratory, Ecole Polytechnique Fédérale de Lausanne (EPFL), Matteo Salani, Michel Bierlaire
**TD-27**

Thursday, 13:30-15:00, Room F-152

**Scheduling approaches**

Stream: Scheduling, time tabling and project management

Chair: Armin Scholl, Chair of Management Science and Decision Analysis, FSU Jena

1. **Batch vs. Cyclic Scheduling of Flexible Flow Shops by Mixed Integer Programming**
   Tadeusz Sawik, Operations Research & Information Technology, AGH University of Science & Technology

2. **Trade-off between CMAX and Availability of 2-level Flow-shop Under Corrective Maintenance**
   Faicel Hnaien, LOSI, University of Technology of Troyes, Farouk Yalaoui

3. **A Sequential Rectangular Packing Approach for a Resource Allocation Problem**
   Ugur Eliiyi, Department of Industrial Systems Engineering, Izmir University of Economics, Elifendi Nasibov

4. **Ergonomic job rotation — Generating working schedules that minimize health risks**
   Alena Otto, Management Science, Friedrich-Schiller University Jena, Armin Scholl

**TD-28**

Thursday, 13:30-15:00, Room F-180

**Closed loop supply chains**

Stream: Production management, supply chain management

Chair: Ralf Gössinger, Business Administration, Production and Logistics, University of Dortmund

1. **Leasing and Remanufacturing Strategies with Pricing and Inventory Control**
   Nurcan Demirok, Industrial Engineering, Istanbul Kultur University, Necati Aras, Refik Gullu

2. **Remanufacturing of used products in a closed-loop supply chain with quantity discount**
   Grigory Pishchulov, Chair of Industrial Management, European University Viadrina, Imre Dobos, Barbara Gobsch, Nadezda Pakhomova, Knut Richter

3. **Performance analysis of hybrid manufacturing/ remanufacturing system according to inventory operating cost**
   Özalp Yayıy, Chairman of Engineering Management Department, Marmara University Institute of Pure and Applied Sciences, Adnan Çorun, Erkan Bayraktar, Cihan Evecen

4. **Acquisition, sorting and disposition of used goods for remanufacturing under uncertain quality grading**
   Gernot Lechner, Department of Production and Operations Management, University of Graz, Marc Reimann

5. **Strategic Capacity Planning in Closed-Loop Supply Chains**
   Ralf Gössinger, Business Administration, Production and Logistics, University of Dortmund, Sandra Hallek

**TD-29**

Thursday, 13:30-15:00, Room F-118

**Variety & finance**

Stream: Production management, supply chain management

Chair: Marc Reimann, Department of Production and Operations Management, University of Graz

1. **Bargaining Power vs. Collaborative Effort: Empirical Analysis of Supply Chain Finance Potentials**
   Kai Hoberg, Seminar for Supply Chain Management and Management Science, University of Cologne, Margarita Protopappa-Sieke

2. **Calculation of constructible set of valid configurations for product variety management**

3. **Optimization of product modularization in light of product life cycles**
   Urs Pietschmann, Faculty of Management and Economics, Ruhr-University Bochum, Brigitte Werners

4. **Accurate response by postponement**
   Marc Reimann, Department of Production and Operations Management, University of Graz

**TD-30**

Thursday, 13:30-15:00, Room G-212

**Accounting and hospital management**

Stream: Accounting and revenue management

Chair: Michaela Schaffhauser-Linzatti, Business Administration, University of Vienna

1. **Strategic Controlling in Viennese Hospitals: A Statistical Analysis**
   Michaela Schaffhauser-Linzatti, Business Administration, University of Vienna, Marion Rauner, Sabine Blaschke, Nadine Eder, Manuela Kolesnik

2. **Multi-periodic Case-Mix-Optimization in a Hospital Network**
   Katherina Brink, Business Administration & Economics, Bielefeld University

3. **Balanced Scorecard — A strategic tool for medical universities and faculties?**
   Markus Künzel, Internal Audit, Medical University of Vienna

4. **The Austrian Health Care System — Introduction of a New Reporting System for Hospitals**
   Magdalena Kuntner, Institute for Financial Accounting and Auditing, Vienna University of Economics and Business, Barbara Schallmeiner
Thursday, 15:30-16:15

**TE-02**
Thursday, 15:30-16:15, Room F-101

**Leyffer: Mixed-integer nonlinear optimization**
Stream: Semi-plenary lectures
Chair: Karl Schmedders, Business, University of Zurich

1 - **MINOTAUR: Solving Mixed-Integer and Nonlinear Optimization Problems**
Sven Leyffer, Argonne National Lab

**TE-03**
Thursday, 15:30-16:15, Room F-104

**Costa: Practice of supply chain management**
Stream: Semi-plenary lectures
Chair: Eleni Pratsini, IBM Zurich Research Lab

1 - **Decision Support Models in Supply Chain at Nestle**
Daniel Costa

**TE-04**
Thursday, 15:30-16:15, Room F-109

**Bühlmann: Statistics and optimization**
Stream: Semi-plenary lectures
Chair: Hans-Jakob Lüthi, D-MATH, ETHZ

1 - **Statistics and Optimization for Causal Inference in Large-Scale Biological Systems**
Peter Bühlmann, Department of Mathematics, ETH Zurich

---

**TE-05**
Thursday, 15:30-16:15, Room F-118

**Voss: Matheuristics**
Stream: Semi-plenary lectures
Chair: Luca Maria Gambardella, IDSIA

1 - Matheuristics: Hybridizing Metaheuristics and Mathematical Programming
Stefan Voss, Wirtschaftsinformatik/Information Systems, University of Hamburg

---

**TE-06**
Thursday, 15:30-16:15, Room F-121

**Brailsford: Healthcare analytics**
Stream: Semi-plenary lectures
Chair: Marion Rauner, Dept. Innovation and Technology Management, University of Vienna

1 - Overcoming the barriers: Getting simulation used in healthcare
Sally Brailsford, University of Southampton
Friday, 08:30-10:00

FA-08
Friday, 08:30-10:00, Room G-201

Vector- and set-valued optimization
Stream: Continuous optimization and control
Chair: Frank Heyde, Institute of Mathematics and Scientific Computing, University of Graz

1 - On algorithms for linear vector optimization problems and applications in finance
Andreas Löhne, Institut für Mathematik, MLU Halle-Wittenberg, Birgit Rudloff

2 - Continuity of convex set-valued functions
Frank Heyde, Institute of Mathematics and Scientific Computing, University of Graz, Carola Schrage

3 - A notion of vector pseudogradient with applications in vector optimization
Enrico Miglierina, Dipartimento di Economia, Università dell’Insubria

FA-09
Friday, 08:30-10:00, Room G-204

Optimization and control in the financial sector
Stream: Continuous optimization and control
Chair: Gerhard-Wilhelm Weber, Institute of Applied Mathematics, Middle East Technical University

1 - The OR of Eco-Finance Networks and Cooperative Game Theory under Uncertainty
Gerhard-Wilhelm Weber, Institute of Applied Mathematics, Middle East Technical University, Efsun Kırim, Azar Karimov, Ayse Özmen, Ozlem Deterli, Busra Zeynep Temocin

2 - CMARS Method for Stochastic Differential Equations

3 - Understanding Dynamics of Financial Bubbles by Geometrical and Topological Aspect
Efsun Kırim, Financial Mathematics, Institute of Applied Mathematics, Gerhard-Wilhelm Weber

4 - Electricity Price Modeling for Turkey
Ayse Özmen, Institute of Applied Mathematics, Middle East Technical University, Miray Hanım Yıldırım, Özlem Türker Bayrak, Gerhard-Wilhelm Weber

FA-10
Friday, 08:30-10:00, Room G-217

Robust and inverse optimization
Stream: Discrete optimization, graphs and networks
Chair: David Adjishvili, D-MATH, IFOR, ETH Zurich

1 - Split Cuts for Robust Mixed-Integer Optimization
Utz-Uwe Haus, IFOR, ETH Zürich, Frank Pfeuffer

2 - A Three-Stage Robust Optimization Approach for Minimum Power Multicasting Problem on Wireless Sensor Networks
Nihat Engin Toklu, Istituto Dalle Molle di Studi sull’Intelligenza artificiale (IDSIA), Roberto Montemanni

3 - Inverse shortest path problems via Fundamental Cycle Bases
Mikael Call, Department of Mathematics, Linköping University, Kaj Holmberg

4 - Structural Robustness in Combinatorial Optimization
David Adjishvili, D-MATH, IFOR, ETH Zurich, Rico Zenklusen

FA-11
Friday, 08:30-10:00, Room G-221

Integer programming II
Stream: Discrete optimization, graphs and networks
Chair: Jenny Nossack, Institute of Information Systems, University of Siegen

1 - Models and algorithms for diameter-constrained clique relaxation problems
Filipa Duarte Carvalho, Matematica, ISEG/UTL; CIO, Maria Teresa Almeida

2 - Primal Heuristics for Branch-and-Price Algorithms
Christian Puchert, Operations Research, RWTH Aachen University, Marco Lübbecke

3 - Rounding and Propagation Heuristics for Mixed Integer Programming
Timo Berthold, Optimization, Zuse Institute Berlin, Tobias Achterberg, Gregor Hendel

4 - A Branch and Bound Algorithm for the Acyclic Partitioning Problem
Jenny Nossack, Institute of Information Systems, University of Siegen, Erwin Pesch

FA-12
Friday, 08:30-10:00, Room E-21

Data envelopment analysis I
Stream: Decision analysis, decision support
Chair: Alexander Mack, Engineering and Information Technology, Bern University of Applied Sciences

1 - A DEA based sorting approach for private sector R&D projects
Pınar Aker, Technology and Innovation Funding Programs Directorate (TEYDEB), The Scientific and Technological Research Council of Turkey (TUBITAK), Ersan Karasakal

2 - Negative cross-efficiencies versus returns to scale - An application for automotive suppliers
Andreas Dellnitz, Operations Research, University of Hagen, Wilhelm Rödder, Elmar Reucher
3 - Media Selection planning by data envelopment analysis approach
Katsuaki Tanaka, Faculty of Business Administration, Setsunan University, Yoshinori Matano

4 - Relation between the Efficiency of Public Forestry Firms and Subsidies: The Swiss Case
Alexander Mack, Engineering and Information Technology, Bern University of Applied Sciences, Bernur Acikgöz Ersoy

■ FA-13
Friday, 08:30-10:00, Room F-123

Decision support applications
Stream: Decision analysis, decision support
Chair: Jutta Geldermann, Professur für Produktion und Logistik, Universität Göttingen

1 - OMNI LEAN — a quantitative method to evaluate waste for an objective decision support in production planning phases
Kerstin Herrmann, Daimler AG, Frank Bertagnolli

2 - Benefit-cost evaluation of product variants using Analytic Network Process
Judith Huelle, Chair of Management Accounting and Control, University of Goettingen, Klaus Moeller, Tobias Klatt

3 - Managing the squat lobster fishery in the north of Chile using a nonlinear optimization model for a total allowable catch quota
Victor Albornoz, Departamento de Industrias, Universidad Tecnica Federico Santa Maria, Cristian Canales, Nuxia Espinoza-Fuenzalida

4 - Developing a hybrid fuzzy preference programming model to select partner of strategic alliance
James Liou, Industrial Engineering and Management, National Taipei University of Technology

■ FA-14
Friday, 08:30-10:00, Room F-174

Portfolio and expansion planning
Stream: Energy, environment and climate
Chair: Julien Chabas, EVN AG

1 - Regulation effects on innovations in distribution grids
Stefan Nykamp, University Twente, NL / RWE Deutschland, Nordhorn

2 - On the Use of Fuzzy Theory for Optimizing Portfolios of Power Generation Assets
Reinhard Madlener, Faculty of Business and Economics / E.ON Energy Research Center, RWTH Aachen University, Barbara Glensk

3 - An agent-based simulation of diffusion processes of frequently purchased consumer products
Christian Stummer, Department of Business Administration and Economics, Bielefeld University, Elmar Kiesling, Markus Günther, Rudolf Vetschera, Lea M. Wäkolbinger

■ FA-15
Friday, 08:30-10:00, Room F-175

Applications of stochastic optimization II
Stream: Stochastic programming, stochastic modeling and simulation
Chair: Christiane Barz, Booth School of Business, University of Chicago

1 - Profit Maximization for Intermediaries in Telecommunication Networks Considering Quality of Service (QoS) and Capacity Constraints under Stochastic Demand
Hasan Huseyin Turan, University of Yalova, Nahit Serarslan, Nihat Kasap

2 - Multistage Stochastic Dynamic Programming Solution to Disaster Preparedness and Relief Distribution Problem
Ebru Angun, Industrial Engineering, Galatasaray University, Nihan Karaca

3 - A Nonlinear Mixed Integer Stochastic Programming Model for Solving Fish Processed Production Planning Problem
Herman Mawengkang, Mathematics, The University of Sumatera Utara

4 - An approximate dynamic programming model for resource assignment of hierarchical multi-skill jobs in the telecommunications industry
Christiane Barz, UCLA Anderson School of Management, Bernhard Schwarz, Rainer Kolisch

■ FA-17
Friday, 08:30-10:00, Room F-150

Investment decision II
Stream: Financial modeling, risk management, banking
Chair: Cristinca Fulga, Department of Mathematics, Academy of Economic Studies

1 - Portfolio optimization with a new quantile-based risk measure and prior stock selection
Cristinca Fulga, Department of Mathematics, Academy of Economic Studies

2 - The algebra of option pricing: Theory and application
Werner Hürlimann, FRSGlobal Switzerland

3 - Is it so bad that we cannot recognize black swans?
Lyudmila Egorova, Economics, NRU-HSE, Fuad Aleskerov

4 - An integrated fuzzy decision making approach for suitable and optimal portfolio construction
Pankaj Gupta, Operational Research, University of Delhi, Mukesh Mehlawat
FA-19
Friday, 08:30-10:00, Room E-18
Computational economics II
Stream: Game theory, computational and experimental economics
Chair: Che-Lin Su, Booth School of Business, University of Chicago

1 - Solving Principal Agent Problems by Polynomial Programming
Philipp Renner, Economics, University of Zurich, Karl Schmedders

2 - An MPEC Approach for Estimating Pure Characteristic Models
Che-Lin Su, Booth School of Business, University of Chicago, Jong-Shi Pang

FA-21
Friday, 08:30-10:00, Room F-109
Optimization in gas networks
Stream: Network industries and regulation
Chair: Jacint Szabo, Business Optimization, IBM Research Lab, Zurich

1 - Optimal dimensioning of gas transmission networks when the distribution and the transportation functions are separated.
Daniel De Wolf, Département Économie Gestion, Université du Littoral

2 - A heuristic method to check feasibility in real-world gas transportation networks
Claudia Stangl, Mathematics, University of Duisburg-Essen, Rüdiger Schultz

3 - Mathematical Optimization for Capacity Planning of Gas Distribution Networks
Jesco Humpola, Zuse Institute Berlin, Armin Fügenschuh, Benjamin Hiller, Thomas Lehmann, Jacint Szabo

FA-22
Friday, 08:30-10:00, Room G-209
Applications in logistics
Stream: OR in industry, software applications, modeling languages
Chair: Rafael Velásquez, Logistics Optimisation, INFORM - Institut für Operations Research und Management

1 - Dispatch-Type-Selection, Tour-Assignments and Resource-Planning of a Central Warehouse Distribution Problem
Philipp Thurnher, TL, V-Research, Christian Hillbrand

2 - Evaluation of supply strategies for a fashion discounter
Miriam Kießling, chair of business mathematics, university of bayreuth, Tobias Kreisel, Sascha Kurz, Jörg Rambau

3 - Optimization Approaches for a Network Design Problem of a LTL Logistics Service Provider
Jens Baudach, Institut für Transportlogistik, TU Dortmund, Julia Send, Uwe Clausen

4 - Producing Routing Systems Flexibly Using a VRP Metamodel and a Software Product Line
Tuukka Puranen, Department of Mathematical Information Technology, University of Jyväskylä

5 - Train loading optimisation: Bridging the gap between research and practice
Rafael Velásquez, Logistics Optimisation, INFORM - Institut für Operations Research und Management

FA-23
Friday, 08:30-10:00, Room F-121
Path problems and route planning
Stream: Location, logistics, transportation and traffic
Chair: Gerta Köster, Computer Science and Mathematics, University of Applied Sciences - Munich

1 - A real option route search
Kei Takahashi, Dept. of Ind. & Manage. Systems Eng., Waseda University, Takahiro Ohno

2 - Best compromise approach for multi-modal multi-objective route planning.
Emmanuel Dewaele, Université de Tours, Laboratoire d’informatique, Emmanuel Néron, Gaël Sauvanet

3 - Contraction hierarchies with A* for digital road maps
Curt Nowak, Betriebswirtschaft und Wirtschaftsinformatik, Stiftung Universität Hildesheim, Felix Hahne, Klaus Ambrosi

4 - Social groups and graph-based routing in a crowd simulation
Michael Seitz, Computer Science and Mathematics, University of Applied Sciences - Munich, Gerta Köster, Dirk Hartmann

FA-24
Friday, 08:30-10:00, Room F-101
Freight transportation II
Stream: Location, logistics, transportation and traffic
Chair: Ulrich Pferschy, Department of Statistics and Operations Research, University of Graz

1 - An integrated finished automobile logistics planning model; an extension of inventory maritime routing problem
Saurabh Chandra, Operations Management, Indian Institute of Management Lucknow, Rajiv Srivastava

2 - Convoying against Piracy
Jack Vermeulen, Behavioural and Societal Sciences, TNO, Rien van de Ven

3 - Lock scheduling at the Kiel Canal
Elisabeth Günther, Institut für Mathematik, TU Berlin, Martin Luy
4 - Solving a Three-Dimensional Packing Problem with Real-World Constraints
Ulrich Pferschy, Department of Statistics and Operations Research, University of Graz, Gerald Hubmann

FA-25
Friday, 08:30-10:00, Room F-104

Discrete optimization and railway traffic I
Stream: Location, logistics, transportation and traffic
Chair: Armin Fügenschuh, Optimierung, Zuse Institut Berlin
Chair: Uwe T. Zimmermann, Institute of Mathematical Optimization, TU Braunschweig
1 - Optimal freight train composition with reduced shunting operations
Ronny Hansmann, Institute of Mathematical Optimization, TU Braunschweig, Uwe T. Zimmermann
2 - The Freigh Train Routing Problem
Torsten Klug, Optimization, Zuse Institute Berlin, Thomas Schlechte, Ralf Borndörfer, Armin Fügenschuh
3 - A Parallel Bundle Method for Asynchronous Subspace Optimization in Lagrangian Relaxation and its Application to Train Timetabling Problems
Frank Fischer, Mathematics, Chemnitz University of Technology, Christoph Helmberg

FA-26
Friday, 08:30-10:00, Room F-153

Production scheduling
Stream: Scheduling, time tabling and project management
Chair: Sandro Bosio, IFOR, ETH Zurich
1 - Synchronized Two-Stage Lot Sizing and Scheduling Problem in Automotive Industry
Fadime Uney-Yuksoktepe, Industrial Engineering, Istanbul Kultur University, Rifat Gürcan Özdemir
2 - Steel hot rolling: A column generation approach
Matthias Altenhoefer, Mathematics, University of Kaiserslautern, Sven Krumke, Sleiman Saliba, Thomas Schlechte
3 - Mailroom production planning
Sandro Bosio, IFOR, ETH Zurich
4 - Flexible Job Shop Scheduling with Blockages and an Application in Railcar Maintenance
Thomas Rieger, Institute for Mathematical Optimization, Technical University Braunschweig, Uwe T. Zimmermann, Ronny Hansmann

FA-27
Friday, 08:30-10:00, Room F-152

Scheduling algorithms
Stream: Scheduling, time tabling and project management
Chair: Dirk Briskorn, University of Siegen

1 - A dynamic programming approach to the aircraft landing problem with aircraft classes
Alexander Lieder, Chair of production management, University of Mannheim, Raik Stolletz, Dirk Briskorn
2 - Minimization of total weighted tardiness in permutation flow-shops with sequence-dependent setup times
Christian Rathjen, WINFOR (Business Computing and Operations Research), Schumpeter School of Business and Economics, University of Wuppertal, Stefan Bock, Eva Vallada
3 - An efficient GRASP heuristic for the slab scheduling problem
Matthias Wichmann, Institute of Automotive Management and Industrial Production, Technische Universität Braunschweig, Thomas Völling, Thomas Spengler
4 - Modeling and Optimizing Hospital Evacuations
Jens Poppenborg, Institute of Applied Stochastics and Operations Research, Clausthal University of Technology, Sigrid Knust

FA-28
Friday, 08:30-10:00, Room F-180

Production planning
Stream: Production management, supply chain management
Chair: Martin Grunow, Management Engineering, Technical University of Denmark
1 - Production planning for parallel multi-mode machines
Sascha Herpers, Supply Chain Management and Production, University of Cologne
2 - Simultaneous Production and Maintenance Planning of a Capacity-constrained Resource with Multiple Components
Anja Wolter, Institut für Produktionstürmacht, Leibniz Universität Hannover
3 - A MIP model for an integrated production and distribution scheduling problem
Rolf Wendt, Operations Research and Business Informatics, TU Dortmund
4 - Vertical Decomposition of Integrated Production and Distribution Planning Models
Waldemar Kaczmarczyk, Department of Operations Research & Information Technology, AGH University of Science & Technology
5 - Supply Network Planning for Market Entry of New Products in the Pharmaceutical Industry
Klaus Reinholdt Nyhuus Hansen, Operations Management, Technical University of Denmark, Martin Grunow
Friday, 10:30-11:15

**FB-02**
Friday, 10:30-11:15, Room F-101

*Weismantel: Mixed-integer optimization*
Stream: Semi-plenary lectures
Chair: Alexander Martin, Department Mathematics, University Erlangen-Nürnberg

1 - A Cutting Plane Theory for Mixed Integer Optimization

Robert Weismantel, Department of Mathematics, ETH Zurich

**FB-03**
Friday, 10:30-11:15, Room F-104

*Munson: Environmental models*
Stream: Semi-plenary lectures
Chair: Thomas Rutherford, ETH Zürich
Chair: Stefan Pickl, Department for Computer Science, Universität der Bundeswehr München

1 - CIM-EARTH: Overview and Case Study

Todd Munson, Mathematics and Computer Science Division, Argonne National Laboratory

**FB-05**
Friday, 10:30-11:15, Room F-118

*Tragler: Drugs and optimal control*
Stream: Semi-plenary lectures
Chair: Stephan Dempe, Mathematics and Computer Sciences, Technische Universität Freiberg

1 - Operations Research, Drugs, and Optimal Control

Gernot Tragler, OR and Nonlinear Dynamical Systems, Vienna University of Technology

**FB-06**
Friday, 10:30-11:15, Room F-121

*Alderson: Organized complexity in networks*
Stream: Semi-plenary lectures
Chair: Marco Laumanns, IBM Research - Zurich

1 - Robustness, Design, and Complexity and their Implications for Network-Centric Infrastructures

David Alderson, Operations Research Dept., Naval Postgraduate School
Friday, 11:30-12:30

**FC-08**
Friday, 11:30-12:30, Room G-201

Recent advances in nonlinear optimization methods
Stream: Continuous optimization and control
Chair: Sven Leyffer, Argonne National Lab

1 - Mixed-Integer Nonlinear Programming based on Mixed-Integer Quadratic Approximations
   Thomas Lehmann, Optimization, Konrad-Zuse-Zentrum, Klaus Schittkowski, Oliver Exler

2 - Reconstruction and extensions of the Hedge algorithm in the context of subgradient methods
   Michael Bürgisser, IFOR, ETH Zurich, Michel Baes

**FC-10**
Friday, 11:30-12:30, Room G-217

Heuristics and exact algorithms
Stream: Discrete optimization, graphs and networks
Chair: Lorenz Klaus, D-MATH, IFOR, ETH Zurich

1 - Lagrangian Relaxation and Pegging Test for Linear Ordering Problems
   Noriyoshi Sukegawa, Graduate School of Systems and Information Engineering, University of Tsukuba, Liyuan Zhang, Yoshitsugu Yamamoto

2 - An Ant Colony Optimization Approach for Minimum Spanning Tree Problems in Nonlinear Costs Network Flows
   Marta S. R. Monteiro, Faculdade de Economia and LIAAD-INESC Porto L.A., Universidade do Porto, Dalila Fontes, Fernando A. C. C. Fontes

3 - Simple Pivoting in Linear Complementarity
   Lorenz Klaus, D-MATH, IFOR, ETH Zurich

**FC-11**
Friday, 11:30-12:30, Room G-221

Combinatorial Optimization II
Stream: Discrete optimization, graphs and networks
Chair: Nils Röhl, Paderborn University

1 - Local search algorithm for competitive facility location problem
   Vladimir Beresnev, Operation Research, Sobolev Institute of Mathematics

2 - A Location Game under Generalized Single-Peaked Preferences
   Nils Röhl, Paderborn University, Berno Buechel, Jan-Philip Gamp

3 - Satisfiability and Intervals
   Kathrin Ballerstein, IFOR, ETH Zurich, Dirk O. Theis

**FC-12**
Friday, 11:30-12:30, Room E-21

Data envelopment analysis II
Stream: Decision analysis, decision support
Chair: Michael Serejenkov, Fernuniversität in Hagen

1 - Network DEA assessment of NBA teams efficiency
   Jose L. Salmeron, School of Engineering, University Pablo de Olavide, Placido Moreno, Sebastián Lozano

2 - Wie (in-)effizient wird das deutsche Gesundheitssystem? Eine zukunftsgerechtete DEA-Bewertung
   Michael Serejenkov, Fernuniversität in Hagen, Wilhelm Rödder

**FC-14**
Friday, 11:30-12:30, Room F-174

Stochastic modelling in energy markets
Stream: Energy, environment and climate
Chair: Gerold Petritsch, Research, e & t Energie Handels GmbH

1 - Multiperiod stochastic optimization problems with time-consistent risk constraints and an application to power generation scheduling
   Martin Densing, Energy Economics, PSI, Janos Mayer

2 - Energy Optimization and Stochastic Price Modeling: Bin Ovular Twins
   Gerold Petritsch, Research, e & t Energie Handels GmbH, Julien Chabas, Katharina Vedovelli

**FC-15**
Friday, 11:30-12:30, Room F-175

Queuing systems III
Stream: Stochastic programming, stochastic modeling and simulation
Chair: Rachel Ravid, Industrial Engineering and Management, Ort Braude College

1 - Approximate Formula of Delay Time Variance in Renewal Input General Service Time Single Server Queueing System
   Yoshitaka Takahashi, Faculty of Commerce, Waseda University, Yoshiaki Shikata, Andreas Frey

2 - Exact analysis of closed queueing systems with phase-type distributed service times and finite buffers
   Svenja Lagershausen, Department of Supply Chain Management and Production, University of Cologne

3 - State Dependent Priorities for Service Systems with Exchangeable Items
   Rachel Ravid, Industrial Engineering and Management, Ort Braude College
**FC-17**
Friday, 11:30-12:30, Room F-150

**Risk pricing**
Stream: Financial modeling, risk management, banking
Chair: Delia Coculescu, Department of Banking and Finance, University of Zurich

1 - Efficient Simulations for a Bernoulli Mixture Model of Portfolio Credit Risk
Halis Sak, Systems Engineering Department, Yeditepe University

2 - A Valuation Method of Credit Default Swaps with Correlated Jumps of the Firm's Asset Value
Tomoya Horiuchi, Business Design and Management, Graduate School of Waseda University, Kei Takahashi, Takahiro Ohno

3 - A general formula for pricing defaultable claims
Delia Coculescu, Department of Banking and Finance, University of Zurich

**FC-22**
Friday, 11:30-12:30, Room G-209

**Industrial applications**
Stream: OR in industry, software applications, modeling languages
Chair: Mahmut Ali Gokce, Industrial Systems Engineering, Izmir University of Economics

1 - Application of a Heuristic Approach to Minimization of Energy Consumption in Printed Circuit Board Manufacturing
You-Jin Park, Department of Business Administration, Chung-Ang University, Korea

2 - A mathematical model for supporting the decisions of the steam production system in a tomato company
Cleber Rocco, Dept. of Production Engineering, Federal University of São Carlos, Reinaldo Morabito

3 - Disassembly Planning and Application in Keskinoglu Poultry
Mahmut Ali Gokce, Industrial Systems Engineering, Izmir University of Economics, Burak Gokgur

**FC-23**
Friday, 11:30-12:30, Room F-121

**Service networks and freight forwarding**
Stream: Location, logistics, transportation and traffic
Chair: Christian Bierwirth, Martin-Luther-University Halle-Wittenberg

1 - Scheduling strategies for logistics terminals and yards
Christian Tesch, Institut für Transportlogistik - Technische Universität Dortmund, Uwe Clausen

2 - Proportionally Fairer Service Systems Design
Lubos Buzna, Department of Transportation Networks, University of Zilina, Michal Kohani, Jaroslav Janacek

3 - A Location-Routing Approach for Delivering Premium Goods in E-Grocery
Seda Ugurlu, Industrial Engineering, Istanbul Technical University, Burcin Bozkaya, Ronan Jouan de Kervenoael

4 - Spatial and temporal synchronization of mobile servers in service networks
Dorota Mankowska, Martin-Luther-University Halle-Wittenberg, Christian Bierwirth, Frank Meisel

**FC-24**
Friday, 11:30-12:30, Room F-101

**Container logistics**
Stream: Location, logistics, transportation and traffic
Chair: Iris F.A. Vis, Faculty of Economics and Business, Dep. of Operations, University of Groningen

1 - A tree search heuristic for the container retrieval problem
Florian Forster, Dept. of Information Systems, University of Hagen, Andreas Bretfeldt

2 - Reduction of Empty Container Repositioning Costs by Container Sharing
Sebastian Sterzik, Business Studies & Economics, Chair of Logistics, University of Bremen, Herbert Kopfer

3 - Sequencing New Types of Stacking Crane Configurations
Iris F.A. Vis, Faculty of Economics and Business, Dep. of Operations, University of Groningen, Hector Carlo

**FC-25**
Friday, 11:30-12:30, Room F-104

**Discrete optimization and railway traffic II**
Stream: Location, logistics, transportation and traffic
Chair: Uwe T. Zimmermann, Institute of Mathematical Optimization, TU Braunschweig
Chair: Armin Fügenschuh, Optimierung, Zuse Institut Berlin

1 - An Integer Programming Approach to the Network Design Problem of Wagonload Traffic
Julia Sender, Institut für Transportlogistik, TU Dortmund, Uwe Clausen

2 - A comparison of decomposition approaches for the railway network expansion problem
Andreas Bärmann, FAU Erlangen-Nürnberg, Alexander Martin, Sebastian Pokutta

3 - A Constraint Integer Programming Approach for the Locomotive Refueling Problem
Thomas Schlechte, Optimization, Zuse-Institute-Berlin, Stefan Heinz, Andre Augusto Cire
**FC-26**  
Friday, 11:30-12:30, Room F-153

**Scheduling applications**  
Stream: Scheduling, time tabling and project management  
Chair: Dirk Briskorn, University of Siegen

1 - Heterogeneous workforce scheduling for check-in counters at airports  
*Emilio Zamorano, University of Mannheim, Raik Stolletz*

2 - Flexible days off scheduling: A general approach  
*Jens Brunner, TUM School of Management, Technische Universität München, Jan Mathias Köhler*

3 - Positioning of loading units in a transshipment yard storage area  
*Florian Jaehn, Business Administration, Management Information Science*

---

**FC-27**  
Friday, 11:30-12:30, Room F-152

**Scheduling analysis**  
Stream: Scheduling, time tabling and project management  
Chair: Erwin Pesch, FB 5, University of Siegen

1 - Exploration of the ordering for a sequential airport ground movement algorithm  
*Stefan Ravizza, School of Computer Science, University of Nottingham, Jason Atkin*

2 - Gaps between optimal values of some packing and scheduling problems  
*Guntram Scheithauer, Mathematik, TU Dresden, Gleb Belov*

3 - Explanation Algorithms in Cumulative Scheduling  
*Jens Schulz, Institut für Mathematik, Technische Universität Berlin, Stefan Heinz*

---

**FC-28**  
Friday, 11:30-12:30, Room F-180

**Aggregate production planning**  
Stream: Production management, supply chain management  
Chair: Heinrich Kuhn, Operations Management, Catholic University of Eichstaett-Ingolstadt

1 - Aggregate production planning for low-demand, remote manufacturing systems  
*Christoforos Charalambous, Frederick University, Savvas Pericleous, Krzysztof Flešar*

---

**FC-29**  
Friday, 11:30-12:30, Room F-118

**Inventory III**  
Stream: Production management, supply chain management  
Chair: Nico Dellaert, Technology Management, Eindhoven University of Technology

1 - A new separate-bin policy for inventory control of multi-priority demands in a continuous review environment  
*Rajesh Piplani, Systems and Engineering Mgmt, Nanyang Technological University, S Viswanathan, Sugoutam Ghosh*

2 - Integrated capacity and inventory decisions in a simple production system  
*Nico Dellaert, Technische Universiteit Eindhoven, Jully Jeunet*

---

**Friday, 13:30-15:00**

**FD-01**  
Friday, 13:30-15:00, Room B-10, Video-Transmission G-201

**Pulleyblank: Twenty-first century decision making**  
Stream: Plenary lectures  
Chair: Diethard Klatte, Institut für Operations Research, Universität Zürich

1 - Optimizing Twenty-First Century Decision Making  
*William Pulleyblank, Mathematical Sciences Department, United States Military Academy, West Point*
Accounting and revenue management  
Invited  
Michaela Schaffhauser-Linzatti  
University of Vienna  
Claudius Steinhardt  
University of Augsburg  
Matthias Amen  
University of Bielefeld  
Track(s): 30  
7 sessions  

Award winner sessions  
Invited  
Leena Suhl  
University of Paderborn  
Track(s): 7  
4 sessions  

Continuous optimization and control  
Invited  
Gustav Feichtinger  
Vienna University of Technology  
Diethard Klatte  
Universität Zürich  
Stephan Dempe  
Technische Universität Freiberg  
Track(s): 8 9  
15 sessions  

Decision analysis, decision support  
Invited  
Eranda Cela  
TU Graz  
Jutta Geldermann  
Universität Göttingen  
Roland W. Scholz  
ETH Zurich  
Track(s): 12 13  
11 sessions  

Discrete optimization, graphs and networks  
Invited  
Friedrich Eisenbrand  
EPFL  
Bettina Klinz  
TU Graz  
Alexander Martin  
University Erlangen-Nürnberg  
Track(s): 10 11  
16 sessions  

Energy, environment and climate  
Invited  
Stefan Pickl  
Universität der Bundeswehr München  
Gerold Petritsch  
e & t Energie Handels GmbH  
Thomas Rutherford  
ETH Zürich  
Track(s): 14  
8 sessions  

Financial modeling, risk management, banking  
Invited  
Roland Mestel  
University of Graz  
Erich Walter Farkas  
University of Zurich  
Daniel Roesch  
Leibniz University Hannover  
Track(s): 17 18  
10 sessions  

Forecasting, neural nets and fuzzy systems  
Invited  
Hans Georg Zimmermann  
Siemens AG  
Martin Kuehner  
fin4east  
Petros Koumoutsakos  
ETHZ  
Track(s): 32  
3 sessions  

Game theory, computational and experimental economics  
Invited  
Thomas Burkhardt  
Universitaet Koblenz-Landau  
Ulrike Leopold-Wildburger  
Karl-Franzens-University  
Felix Kubler  
University of Zurich  
Track(s): 19  
7 sessions  

Health, life sciences, bioinformatics  
Invited  
Marion Rauner  
University of Vienna  
Teresa Melo  
Saarland University of Applied Sciences  
Track(s): 20  
5 sessions  

Location, logistics, transportation and traffic  
Invited  
Ulrich Weidmann  
ETH Zurich  
Knut Haase  
Universität Hamburg  
Richard Hartl  
University of Vienna  
Track(s): 23 24 25  
24 sessions  

Metaheuristics and biologically inspired approaches  
Invited  
Luca Maria Gambardella  
Walter Gutjahr  
University of Vienna  
Franz Rothlauf  
Universität Mainz  
Track(s): 31  
4 sessions  

Network industries and regulation  
Invited  
Marco Laumanns  
IBM Research - Zurich  
Mikulas Luptacik  
University of Economics and Business  
Grit Walther  
Bergische Universität Wuppertal  
Track(s): 21  
4 sessions
OR in industry, software applications, modeling languages
Invited
Ulrich Dorndorf
INFORM GmbH
Eleni Pratsini
IBM Zurich Research Lab
Alfred Taudes
Vienna University of Economics and Business Administration
Track(s): 22
8 sessions

Plenary lectures
Invited
Karl Schmedders
University of Zurich
Track(s): 1
3 sessions

Production management, supply chain management
Invited
Herbert Meyr
University of Hohenheim
Stefan Minner
University of Vienna
Stephan Wagner
Swiss Federal Institute of Technology Zurich (ETH Zurich)
Track(s): 28 29
16 sessions

Scheduling, time tabling and project management
Invited
Erwin Pesch
University of Siegen
Ulrich Pferschy
University of Graz
Norbert Trautmann
University of Bern
Track(s): 26 27
14 sessions

Semi-plenary lectures
Invited
Karl Schmedders
University of Zurich
Track(s): 2 3 4 5 6
13 sessions

Stochastic programming, stochastic modeling and simulation
Invited
Karl Frauendorfer
University of St. Gallen
Georg Pflug
University of Vienna
Rüdiger Schultz
University of Duisburg-Essen
Track(s): 15 16
10 sessions
<table>
<thead>
<tr>
<th>Session Chair Index</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
</tr>
<tr>
<td>Adjiashvili, David</td>
</tr>
<tr>
<td>Albu, Andrey</td>
</tr>
<tr>
<td>Amen, Matthias</td>
</tr>
<tr>
<td>Amorim, Pedro</td>
</tr>
<tr>
<td>Asahi, Yumi</td>
</tr>
<tr>
<td>Aussenegg, Wolfgang</td>
</tr>
<tr>
<td><strong>B</strong></td>
</tr>
<tr>
<td>Bürgy, Reinhard</td>
</tr>
<tr>
<td>Barz, Christiane</td>
</tr>
<tr>
<td>Bednarczuk, Ewa</td>
</tr>
<tr>
<td>Bierwirth, Christian</td>
</tr>
<tr>
<td>Borndörfer, Ralf</td>
</tr>
<tr>
<td>Bosio, Sandro</td>
</tr>
<tr>
<td>Braunies, Alexander</td>
</tr>
<tr>
<td>Brenner, Dominic</td>
</tr>
<tr>
<td>Briskorn, Dirk</td>
</tr>
<tr>
<td>Buratto, Alessandra</td>
</tr>
<tr>
<td>Bussieck, Michael</td>
</tr>
<tr>
<td><strong>C</strong></td>
</tr>
<tr>
<td>Cafieri, Sonia</td>
</tr>
<tr>
<td>Carlsson, John</td>
</tr>
<tr>
<td>Chabas, Julien</td>
</tr>
<tr>
<td>Clark, Andrew</td>
</tr>
<tr>
<td>Caculescu, Delia</td>
</tr>
<tr>
<td>Costa, Daniel</td>
</tr>
<tr>
<td>de Maere d’Aertrycke, Gauthier</td>
</tr>
<tr>
<td>Del Pia, Alberto</td>
</tr>
<tr>
<td>Dellaert, Nico</td>
</tr>
<tr>
<td>Dempe, Stephan</td>
</tr>
<tr>
<td>Derigs, Ulrich</td>
</tr>
<tr>
<td>Diepen, Guido</td>
</tr>
<tr>
<td>Doerner, Karl</td>
</tr>
<tr>
<td>Dompous, Michael</td>
</tr>
<tr>
<td>Driessen, Theodorus S.H.</td>
</tr>
<tr>
<td><strong>E</strong></td>
</tr>
<tr>
<td>Eichhorn, Andreas</td>
</tr>
<tr>
<td>Eiselt, H.A.</td>
</tr>
<tr>
<td>Eleyat, Mujahed</td>
</tr>
<tr>
<td><strong>F</strong></td>
</tr>
<tr>
<td>Fügenschuh, Armin</td>
</tr>
<tr>
<td>Farkas, Erich Walter</td>
</tr>
<tr>
<td>Fichtinger, Johannes</td>
</tr>
<tr>
<td>Fischer, Andreas</td>
</tr>
<tr>
<td>Fischer, Anja</td>
</tr>
<tr>
<td>Fleischmann, Moritz</td>
</tr>
<tr>
<td>Fourer, Robert</td>
</tr>
<tr>
<td>Frommlat, Florian</td>
</tr>
<tr>
<td>Fulga, Cristina</td>
</tr>
<tr>
<td><strong>G</strong></td>
</tr>
<tr>
<td>Gambardella, Luca Maria</td>
</tr>
<tr>
<td>Gönsch, Jochen</td>
</tr>
<tr>
<td>Gössinger, Ralf</td>
</tr>
<tr>
<td>Geldermann, Jutta</td>
</tr>
<tr>
<td>Goetzmann, Kai-Simon</td>
</tr>
<tr>
<td>Gokce, Mahmut Ali</td>
</tr>
<tr>
<td>Grunow, Martin</td>
</tr>
<tr>
<td>Gutjahr, Walter</td>
</tr>
<tr>
<td><strong>H</strong></td>
</tr>
<tr>
<td>Haase, Knut</td>
</tr>
<tr>
<td>Hürlimann, Tony</td>
</tr>
<tr>
<td>Hartl, Richard</td>
</tr>
<tr>
<td>Heyde, Frank</td>
</tr>
<tr>
<td>Hinz, Juri</td>
</tr>
<tr>
<td>Hipel, Keith</td>
</tr>
<tr>
<td>Hoffmann, Peter</td>
</tr>
<tr>
<td>Hoshi, Kentaro</td>
</tr>
<tr>
<td>Hurink, Johann</td>
</tr>
<tr>
<td><strong>I</strong></td>
</tr>
<tr>
<td>Ignatius, Joshua</td>
</tr>
<tr>
<td>Irnich, Stefan</td>
</tr>
<tr>
<td><strong>J</strong></td>
</tr>
<tr>
<td>Janiak, Adam</td>
</tr>
<tr>
<td><strong>K</strong></td>
</tr>
<tr>
<td>Karrenbauer, Andreas</td>
</tr>
<tr>
<td>Köster, Andreas</td>
</tr>
<tr>
<td>Kim, Whan-Seon</td>
</tr>
<tr>
<td>Klatte, Diethard</td>
</tr>
<tr>
<td>Klau, Gunnar</td>
</tr>
<tr>
<td>Klaus, Lorenz</td>
</tr>
<tr>
<td>Knust, Sigrid</td>
</tr>
<tr>
<td>Kolb, Johannes</td>
</tr>
<tr>
<td>Kolisch, Rainer</td>
</tr>
<tr>
<td>Kopfer, Herbert</td>
</tr>
<tr>
<td>Kristjansson, Bjarni</td>
</tr>
<tr>
<td>Kruger, Alexander</td>
</tr>
<tr>
<td>Kuhn, Daniel</td>
</tr>
<tr>
<td>Kuhn, Heinrich</td>
</tr>
<tr>
<td>Kummer, Bernd</td>
</tr>
<tr>
<td>Kunsch, Pierre</td>
</tr>
<tr>
<td>Kwon, Roy</td>
</tr>
<tr>
<td><strong>L</strong></td>
</tr>
<tr>
<td>Lübbecke, Marco</td>
</tr>
<tr>
<td>Lüthi, Hans-Jakob</td>
</tr>
<tr>
<td>Laumanns, Marco</td>
</tr>
<tr>
<td>Leopold-Wildburger, Ulrike</td>
</tr>
<tr>
<td>Lessmann, Stefan</td>
</tr>
<tr>
<td>Leung, Janny</td>
</tr>
<tr>
<td>Leyffer, Sven</td>
</tr>
<tr>
<td>Lim, Yun Fong</td>
</tr>
<tr>
<td>Luptacík, Mikulas</td>
</tr>
<tr>
<td><strong>M</strong></td>
</tr>
<tr>
<td>Mack, Alexander</td>
</tr>
<tr>
<td>Mariel, Petr</td>
</tr>
<tr>
<td>Martin, Alexander</td>
</tr>
<tr>
<td>Mavri, Maria</td>
</tr>
<tr>
<td>Meisel, Stephan</td>
</tr>
<tr>
<td>Melo, Teresa</td>
</tr>
<tr>
<td>Mitrovic-Minic, Snezana</td>
</tr>
<tr>
<td>Morimoto, Hiroaki</td>
</tr>
<tr>
<td><strong>N</strong></td>
</tr>
<tr>
<td>Nesterov, Yuri</td>
</tr>
<tr>
<td><strong>O</strong></td>
</tr>
<tr>
<td>Olafsson, Snjolfur</td>
</tr>
<tr>
<td><strong>P</strong></td>
</tr>
<tr>
<td>Parragh, Sophie</td>
</tr>
<tr>
<td>Pelizzari, Cristian</td>
</tr>
<tr>
<td>Pesch, Erwin</td>
</tr>
<tr>
<td>Petritsch, Gerold</td>
</tr>
<tr>
<td>Pferschy, Ulrich</td>
</tr>
<tr>
<td>Pflug, Georg</td>
</tr>
<tr>
<td>Pickl, Stefan</td>
</tr>
<tr>
<td>Pratsini, Elieni</td>
</tr>
<tr>
<td>Proncheva, Olga</td>
</tr>
<tr>
<td>Puchinger, Jakob</td>
</tr>
<tr>
<td><strong>R</strong></td>
</tr>
<tr>
<td>Rauner, Marion</td>
</tr>
<tr>
<td>RAVID, RACHEL</td>
</tr>
<tr>
<td>Röhl, Nils</td>
</tr>
<tr>
<td>Recht, Peter</td>
</tr>
<tr>
<td>Reimann, Marc</td>
</tr>
<tr>
<td>Rothlauf, Franz</td>
</tr>
<tr>
<td>Rutherford, Thomas</td>
</tr>
<tr>
<td><strong>S</strong></td>
</tr>
<tr>
<td>Sahling, Florian</td>
</tr>
<tr>
<td>Sawik, Bartosz</td>
</tr>
<tr>
<td>Schaffhauser-Linzatti, Michaela</td>
</tr>
<tr>
<td>Schewe, Lars</td>
</tr>
<tr>
<td>Schimpelfeng, Katja</td>
</tr>
<tr>
<td>Schmedders, Karl</td>
</tr>
<tr>
<td>Schmid, Verena</td>
</tr>
<tr>
<td>Schoebel, Anita</td>
</tr>
<tr>
<td>Scholl, Armin</td>
</tr>
<tr>
<td>Scholz, Roland W.</td>
</tr>
<tr>
<td>Schreiteck, Anna</td>
</tr>
<tr>
<td>Schwindt, Christoph</td>
</tr>
<tr>
<td>Serejenkov, Michael</td>
</tr>
<tr>
<td>Shikhman, Vladimir</td>
</tr>
<tr>
<td>Six, Magdalena</td>
</tr>
<tr>
<td>Sopp, Karina</td>
</tr>
<tr>
<td>Sosnovskiy, Sergey</td>
</tr>
<tr>
<td>Spengler, Thomas</td>
</tr>
<tr>
<td>Spieksma, Frits</td>
</tr>
<tr>
<td>Stolletz, Raik</td>
</tr>
<tr>
<td>Su, Che-Lin</td>
</tr>
<tr>
<td>Suhl, Leena</td>
</tr>
<tr>
<td>Svensson, Ola</td>
</tr>
<tr>
<td>Szabo, Jacint</td>
</tr>
<tr>
<td><strong>T</strong></td>
</tr>
<tr>
<td>Taheri, Hassan</td>
</tr>
<tr>
<td>Tietje, Olaf</td>
</tr>
<tr>
<td>Trautmann, Norbert</td>
</tr>
<tr>
<td>Trunytevyte, Evelina</td>
</tr>
<tr>
<td><strong>U</strong></td>
</tr>
<tr>
<td>Uetz, Marc</td>
</tr>
<tr>
<td><strong>V</strong></td>
</tr>
<tr>
<td>Van Lokeren, Mark</td>
</tr>
<tr>
<td>Name</td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>Velásquez, Rafael</td>
</tr>
<tr>
<td>Vial, Jean-Philippe</td>
</tr>
<tr>
<td>Vis, Iris F.A.</td>
</tr>
<tr>
<td>Vitins, Basil</td>
</tr>
<tr>
<td>Volling, Thomas</td>
</tr>
<tr>
<td>von Mettenheim, Hans-Jörg</td>
</tr>
<tr>
<td>Wagner, Michael</td>
</tr>
<tr>
<td>Walther, Grit</td>
</tr>
<tr>
<td>Weber, Gerhard-Wilhelm</td>
</tr>
<tr>
<td>Weidmann, Ulrich</td>
</tr>
<tr>
<td>Weissensteiner, Alex</td>
</tr>
<tr>
<td>Werners, Brigitte</td>
</tr>
<tr>
<td>Wozabal, David</td>
</tr>
<tr>
<td>Zagrodn, Dariusz</td>
</tr>
<tr>
<td>Zemkoho, Alain B.</td>
</tr>
<tr>
<td>Zimmermann, Jürgen</td>
</tr>
<tr>
<td>Zimmermann, Uwe T. FA-25</td>
</tr>
<tr>
<td>Zurheide, Sebastian</td>
</tr>
</tbody>
</table>
AUTHOR INDEX

Owen, Guillermo TC-19
P
Padberg, Miriam TA-31
Paetz, Friederike TD-12
Pakhomova, Nadezda TD-28
Palan, Stefan TC-17, WB-19
Pallas, Sabine WB-21
Palm, Andreas TA-30
Panagopolous, Athanasios WC-21
Pang, Jong-Shi TA-08, FA-19
Paraschiv, Florentina WC-17
Park, You-Jin FC-22
Parragh, Sophie TA-23
Pasiouras, Fotios TC-32
Patel, Jessica WB-26
Patil, Dayanesh WB-26
Paul, Mareike WE-26
Pöschko, Jan TC-10
Pecin, Diego TD-23
Pelizzari, Cristian TA-16
Perdu, Lien FC-28
Perez, Gloria TA-15, WB-15
Peric, Natasa WB-20
Pericleous, Savvas FC-28
Pietschmann, Urs TD-29
Piloto Torralba Fernandes, Jéssica WE-14
Pindoria, Sandip TC-22
Pinho de Sousa, Jorge TA-23
Piplani, Rajesh FC-29
Pinto de Sousa, Jorge TA-23
Pöschke, Jan TC-10
Pfeuffer, Frank TA-17
Pichler, Alois TA-17
Piek, Stefan WE-19
Picht, Christian WE-16
Pilato, Torralba Fernandes, Jéssica WE-14
Pohl, Walter WE-19
Pokutta, Sebastian FC-25
Pons, Montserrat TA-19
Pope, Brandon WC-20
Popescu, Ioana WB-30
Poppenborg, Jens FA-27
Pratsini, Eleni TA-29, WE-29
Profillidis, Vassilios FA-32
Protolopappas-Sieke, Margarita TA-29
Puchert, Christoph TA-07, FA-11
Puchinger, Jakob TC-24
Puerto, Justo WC-24
Pulij, Krzysztof WC-31
Pulleyblank, William FD-01
Pullmann, Markus WC-23
Punnen, Abraham WB-25
Punnen, Teukka FA-22
R
Rabinowitz, Gad TA-28
Rachuba, Sebastian WE-20
Rahmann, Sven TA-20, TC-20
Rambau, Jörg FA-22
Rangaraj, Narayan TD-29
Rathi, Christian FA-27
Rauner, Marion WB-20, TD-30
RAVID, RACHEL FC-15
Ravizza, Stefan FC-27
Ray, Tapabrata WB-31
Rödiger, Wilhelm FA-12, FC-12
Röhl, Nils FC-11
Rebennack, Steffen TC-07, TD-22
Recht, Peter WE-11
Redlein, Alexander FA-30
Reichmann, Gerhard WC-20
Reimann, Marc TC-13, WB-23, TD-28, 29
Reiner, Alan WB-18
Reinert, Knut TA-20
Renner, Philipp FA-19
Resch, Florian WB-18
Reucher, Elmar FA-12
Riccardi, Rossana WB-14
Richtarik, Peter TC-08
Richter, Knut TD-28
Richter, Stefan TC-08
Ricker, Pieter TC-23
Rieck, Julia WB-25, TA-27
Rieger, Thomas FA-26
Ries, Jana TC-12
Rietmann, Daniel WE-14
Rocco, Cleber TA-12, FC-22
Rocco, Marco WB-14
RODRIGUEZ-PUERTA, INMACULADA LADA TD-13
Rohack, James WC-20
Rohm, Pierre TA-27
Roman, Diana WC-18
Rottke, Beate TA-24
Rudloff, Birgit FA-08
Ruff, Volker WE-30
Ruhland, Johannes TA-14, WC-24
Rustem, Berc TA-15
Rutherford, Thomas WE-22
S
Sagnol, Guillaume TD-24
Sahin, Guvence WC-25
Sahling, Florian WB-28
Sak, Halis FC-17
Salani, Matteo TA-11, TD-26
Salanida-da-Gama, Francisco TC-24
Saliba, Sleman FA-26
Salman, Sibel WB-20
Salmeron, Jose L. TC-12, TD-32
Sand, Guido WE-15
Sander, Christoph TA-14, WC-22
Sankaranarayanan, Karthik TD-13
Sargut, Zeynep WC-27
SARI, Tuncay WE-23
Saouanet, Gaëlle FA-23
Savasanehit, Secil TA-25, WE-28
Sawick, Bartosz WE-17
Sawick, Tadeusz TD-27
Sayah, David WB-30
Schaffhauser-Linzatti, Michaela TD-30
Schallmeiner, Barbara TA-26
Schüpbach, Kaspars TD-23
Schürle, Michael WB-17
Schauer, Joachim WE-27
Schäfer, Bruno WE-14
Scheithauer, Guntram FC-27
Schelbert, Jakob WE-10
Schewe, Lars WE-10
Schindl, David WB-26
Schaitkowsky, Klaus FC-08
Schlage, Christian TD-29
Schlechte, Thomas WA-22, FA-25, WC-25, FA-26
Schmieders, Karl FA-19
Schmid, Verena WC-23, TA-24
Schmidt, Günter TC-13
Schmidt, Kerstin TC-29
Schmidt, Marie TD-25
Schmied, Stefan WE-10
Schmitt, Stephan WB-21
Schneider, Frank WB-11
Schneider, Robert WE-14
Schoebel, Anita TC-09, TD-11, TD-25
Schoenberger, Joern TC-23
Schoenhuth, Alexander TC-20
Scholl, Armin TD-27, TA-28
Scholz, Peter TC-17
Scholz, Roland W. WB-12
Schorpp, Steffen TD-07
Schrage, Carola FA-08
Schrögen, Guido TA-24
Schubert, Johan WE-12
Schuette, Andreas TD-29
Schuffner, Heiner WE-11
Schultmann, Frank TC-14
Schultz, Rüdiger TA-15, FA-21
Schulz, Jens TC-24, FC-27
Schwanderer, Frank TC-14
Schwarz, Bernhard FA-15
Schwarz, Cornelius WE-27
Schwiegelshohn, Chris TA-20
Schwindt, Christoph TA-27
Scutari, Gesualdo TA-08
Seemann, Florian WB-28
Seidel, Frauke WC-30
Seidl, Andrea WB-09
Seidi, Abbas WE-23
Seitz, Michael FA-23
Selinka, Gregor WE-28
SELLAMI, Khaled TA-31
SELLAMI, Lynda TA-31
Senarclens de Grancy, Gerald WB-23
Sender, Julia FA-22, FC-25
Serrasal, Nahit FA-15
Serejenkov, Michael FC-12
Serin, Andreas WC-29
Serin, Yasemin WE-28
Shapiro, Alexander WE-15
Sharma, G.C. TC-15
Sharma, Megha TA-10
Shibata, Takashi TA-22
Shikhashvili, Vladimir WE-08
Shin, Woong TA-23
Shlyk, Vladimir WC-10
AUTHOR INDEX

Shukla, Pradyunn Kumar WB-08
Sigl, Thomas WB-25
Silva, Elisa Bastos TD-19
Silva, Lucas WC-11
Simon, Christa WC-09
Singh, Tilak Raj TD-29
Six, Magdalena TC-13
Sladky, Karel WC-15
Smeers, Yves WC-14, WE-15
Smith, Alan WE-12, TA-16
Sohn, So Young TC-32
Solé, Amparo TD-17
Solís, Adriano WE-20
Soloviev, Vladimir TD-19
Sommerauer-Reichmann, Margit WB-20, WC-20
Sopp, Karina FA-30
Sosnovskiy, Vladimir TA-29
Soukhal, Ameer WC-11, TA-27
Spengler, Thomas WB-21, FA-27, TC-29, WB-29, TA-30
Spieker, Stephan WC-14
Spiesma, Frits TD-26, WC-26
Sprengel, Eva-Maria WE-11
Srivastava, Rajiv FA-24
Stangl, Claudia WC-21
Stauffer, Michael WB-12
Stöcker, Martin TD-09
Stadie-Seifi, Maryam WC-23
Sterzik, Sebastian FA-24
Steiner, Winfried TD-12
Steinker, Sebastian FA-29
Stephan, Adolf WB-20
Stephan, Rüdiger WB-22
Sterzić, Sebastian FC-24
Steuer, Martin WE-08
Strugger, Michael WC-10
Stolletz, Raik FA-23
Strigov, Vadim FA-32
Stüsser, Vladimir TC-19
Struwe, Erk WB-23
Stumm, Christian FA-14
Su, Che-Lin FA-19
Suárez-Figueroa, María del Carmen TC-12
Sufahani, Sulaiyi Firdaus WB-09
Suhl, Leena WE-14, WC-25
Sukewara, Noriyoshi FC-10
Sundstroem, Olle WE-21
Suppa, Uli TC-23
Surowiec, Thomas TD-08
Suvarna, Meghana WB-26
Suyabatmaz, A. Cetin WC-25
Suvarna, Meghna WB-26
Suárez-Figueroa, María del Carmen

T
Takahashi, Kei TD-12, FC-17, TD-19, FA-23
Takahashi, Yoshitaka FC-15, WE-16
Takashima, Ryuta WB-17
Tan, Tian Siang WE-19
Tanaka, Katsuaki FA-12
TANAKA, Ken-ichi WE-24
Türker Bayrak, Özlem FA-09
Türsel Eliyiy, Deniz TA-24, WE-27
Tüzün, Serhat WB-20
Taylan, Pakize FA-09
Töth, Attila WC-25
Tegal, Andreas FA-29
Teichmann, Josef TC-17
Temocin, Busra Zeyneb FA-09
Terada, Tatsuya TD-19
Tesch, Christian FC-23
Thümmler, Andreas TC-14
Theis, Dirk O. FC-11
Thiele, Lothar WE-31
Thonemann, Ulrich TA-29
Thurnher, Philipp FA-22
Tiemessen, Harold TA-29
Tiesler, Stephan TA-14, WC-24
Tietje, Olaf WE-12
Tirkel, Israel TA-28
Toklu, Nihat Engin FA-10
Tomat, Luka TD-09
Topan, Engin WE-29
Topcu, Y. Ilker WB-20
Tore, Nursem WE-28
Tortosa-Ausina, Emili TD-17
Trager, Gernot FB-05
traumann, Norbert TD-17, WB-26, WE-28
Traversi, Emiliano TC-11
Tret’ yakov, Alexey TC-09
Tricore, Fabien WE-23
Trink, Di, Hans L. WC-12
Trunzneyet, Evelina WB-12
TURAN, Hasan Huseyin FA-15
Turkay, Metin TD-14

U
Uetz, Marc WB-27
Ugurlu, Sedat FC-23
Ulrich, Tamara WE-31
Uney-Yuksetepe, Fadime WE-26

V
Vaccia, Ilaria TC-11
Vallada, Eva FA-27
Van Ackere, Ann TD-13, TC-15
van Berkm, Eric TC-13
Van de Ven, Rien FA-24
van Donselaar, Karel WE-29
van Houtum, Geert-Jan TA-29
Van Lokkeren, Mark TA-19
van Nieuwenhuis, Renger WE-22
van Nuenen, Jo TA-29
Vandaele, Nico FC-28
Vanden Berge, Greet TD-26
Varone, Sacha VB-26
VAYVAY, ÖZALP WB-29
Vayvay, Özalp TD-28
Vedovelli, Katharina FC-14
Veiga Pereira, Mario TD-22
Velásquez, Rafael FA-22
Veliyov, Vladimir TA-09
Ventura, Paolo WE-11
Vermeulen, Jack FA-24
Vetschera, Rudolf WE-06, FA-14
Vetter, Hans-Rolf WE-12
Vial, Jean-Philippe WC-14, TC-15, TA-22
Vigerske, Stefan WE-10
Vincent, T’kindt TA-11, CA-23
Voss, Stefan TE-05
Vredevelde, Jark WB-27

Wagner, Michael TC-29
Wakamatsu, Masako TD-10
Wakolbinger, Lea M. FA-14
Walter, Matthias TC-27
Walther, Gert WB-21
Walther, Ursula TA-17, TC-17
Wang, Shuning TA-17
Wang, Xin WB-23, WC-23
Wansom, Jörg WB-21
Waterer, Hansm TA-28
Webber, Christoph WC-14
Webber, Gerhard-Wilhelm FA-09
Weingartner, Rolf WE-14
Weiser, Martin WE-15
Weismantel, Robert FB-02
Weissenstein, Alex WB-15
Weissloch, Ute WB-12
Wendt, Rolf FA-28
Werner, Adrian TC-25
Werner, Axel WB-10
Werner, Ralf WB-18
Werners, Brigitte WE-20, TC-28, TD-29
Westermann, Lutz WE-22
Wex, Felix TA-24
Weyland, Dennis WE-23, WC-31
Wichmann, Matthias FA-27
Wickström, Anna-Laura WC-08
Wiedersheim, Sabrina TC-25
Wiesemann, Wolfram WC-15
Winkler, Michael WC-10
Wismans, Luc TC-13
Witte, Kai WB-29
Woerner, Stefan WE-29
Wolf, Reiner TC-19
Wolter, Anja FA-28
Wodhke, Christian WC-29
Wozabal, David TA-17
Wrzaczek, Stefan WC-09
Wu, Yue WC-28

X
Xie, Lin WC-25
<table>
<thead>
<tr>
<th>Author</th>
<th>Index Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>xin, tang</td>
<td>WC-11</td>
</tr>
<tr>
<td>Xu, Chunhui</td>
<td>TA-17</td>
</tr>
<tr>
<td>xu, zhaohui</td>
<td>TA-08</td>
</tr>
<tr>
<td>Yagi, Kyoko</td>
<td>WB-17</td>
</tr>
<tr>
<td>Yalaoui, Farouk</td>
<td>TD-27, WE-28</td>
</tr>
<tr>
<td>Yamamoto, Yoshitsugu</td>
<td>FC-10</td>
</tr>
<tr>
<td>Yamazaki Lacorte, Debora</td>
<td>WE-14, TD-19</td>
</tr>
<tr>
<td>Yang, Shu-Jung Sunny</td>
<td>WE-12</td>
</tr>
<tr>
<td>Yang, Yao</td>
<td>TA-29</td>
</tr>
<tr>
<td>Yücel, Eda</td>
<td>WB-20</td>
</tr>
<tr>
<td>Ye, Taofeng</td>
<td>TA-29</td>
</tr>
<tr>
<td>Yerlikaya Özkurt, Fatma</td>
<td>FA-09</td>
</tr>
<tr>
<td>Yıldırım, Miray Hanım</td>
<td>FA-09</td>
</tr>
<tr>
<td>Zabudsky, Gennady</td>
<td>TD-11</td>
</tr>
<tr>
<td>Zagrodny, Dariusz</td>
<td>TC-09</td>
</tr>
<tr>
<td>Zamorano, Emilio</td>
<td>FC-26</td>
</tr>
<tr>
<td>Zemkoho, Alain B.</td>
<td>TA-08, WC-08</td>
</tr>
<tr>
<td>Zeng, Lishun</td>
<td>WE-26</td>
</tr>
<tr>
<td>Zenklusen, Rico</td>
<td>FA-10, WE-21, WE-29</td>
</tr>
<tr>
<td>Zervopoulos, Panagiotis</td>
<td>TC-32</td>
</tr>
<tr>
<td>Zesch, Felix</td>
<td>WB-29</td>
</tr>
<tr>
<td>Zhang, Liyuan</td>
<td>FC-10</td>
</tr>
<tr>
<td>Zheng, Lanbo</td>
<td>TA-28</td>
</tr>
<tr>
<td>Zhu, Ziming</td>
<td>WC-15</td>
</tr>
<tr>
<td>Zimmermann, Benedikt</td>
<td>TA-30</td>
</tr>
<tr>
<td>Zimmermann, Hans Georg</td>
<td>TC-32,</td>
</tr>
<tr>
<td>Zimmermann, Jürgen</td>
<td>TA-27</td>
</tr>
<tr>
<td>Zimmermann, Uwe T.</td>
<td>FA-25, 26</td>
</tr>
<tr>
<td>Zinobert, Alan</td>
<td>WB-09</td>
</tr>
<tr>
<td>Zopounidis, Constantin</td>
<td>TC-32</td>
</tr>
<tr>
<td>Zubov, Vladimir</td>
<td>TA-09</td>
</tr>
<tr>
<td>Zuqing, Huang</td>
<td>WE-23</td>
</tr>
<tr>
<td>Zurheide, Sebastian</td>
<td>TA-30</td>
</tr>
<tr>
<td>Zuur, Eduard</td>
<td>WE-14</td>
</tr>
<tr>
<td>Zverovich, Victor</td>
<td>TD-15</td>
</tr>
<tr>
<td>Zymler, Steve</td>
<td>TA-15</td>
</tr>
<tr>
<td>ŞEN, Halil</td>
<td>WC-12</td>
</tr>
<tr>
<td>ŞENVAR, ÖZLEM</td>
<td>WB-29</td>
</tr>
</tbody>
</table>
Track 1 - B-10
  – Plenary lectures
Track 2 - F-101
  – Semi-plenary lectures
Track 3 - F-104
  – Semi-plenary lectures
Track 4 - F-109
  – Semi-plenary lectures
Track 5 - F-118
  – Semi-plenary lectures
Track 6 - F-121
  – Semi-plenary lectures
Track 7 - F-109
  – Award winner sessions
Track 8 - G-201
  – Continuous optimization and control
Track 9 - G-204
  – Continuous optimization and control
Track 10 - G-217
  – Discrete optimization, graphs and networks
Track 11 - G-221
  – Discrete optimization, graphs and networks
Track 12 - E-21
  – Decision analysis, decision support
Track 13 - F-123
  – Decision analysis, decision support
Track 14 - F-174
  – Energy, environment and climate
Track 15 - F-175
  – Stochastic programming, stochastic modeling and simulation
Track 16 - F-123
  – Stochastic programming, stochastic modeling and simulation

Track 17 - F-150
  – Financial modeling, risk management, banking
Track 18 - F-123
  – Financial modeling, risk management, banking
Track 19 - E-18
  – Game theory, computational and experimental economics
Track 20 - F-172
  – Health, life sciences, bioinformatics
Track 21 - F-109
  – Network industries and regulation
Track 22 - G-209
  – OR in industry, software applications, modeling languages
Track 23 - F-121
  – Location, logistics, transportation and traffic
Track 24 - F-101
  – Location, logistics, transportation and traffic
Track 25 - F-104
  – Location, logistics, transportation and traffic
Track 26 - F-153
  – Scheduling, time tabling and project management
Track 27 - F-152
  – Scheduling, time tabling and project management
Track 28 - F-180
  – Production management, supply chain management
Track 29 - F-118
  – Production management, supply chain management
Track 30 - G-212
  – Accounting and revenue management
Track 31 - G-220
  – Metaheuristics and biologically inspired approaches
Track 32 - G-220
  – Forecasting, neural nets and fuzzy systems